

Health & Science

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April 2024



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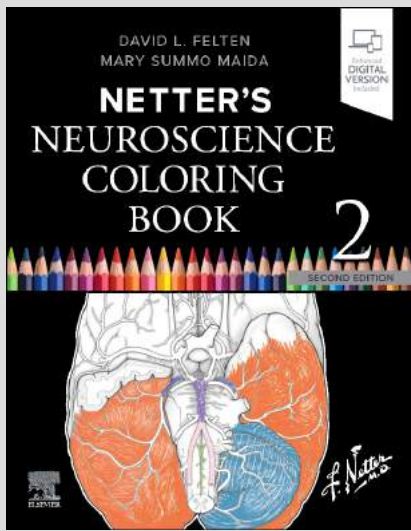
N.B. Please note prices and publication dates may be subject to change without prior notice. Late Addition titles are ones that missed the corresponding New Books Preview Month.

Support for ebook access issues

We are having some short-term difficulties with access to our new Elsevier eBooks+ platform (previously Student Consult and Expert Consult on Inkling) and to the online ancillaries accompanying Elsevier titles.

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eBooks+



Netter's Neuroscience Coloring Book, 2e

David L. Felten, MD, PhD, Associate Dean of Clinical Sciences, University of Medicine and Health, New York, New York and Mary Summo Maida, Ph.D., Adjunct Professor of Neurobiology & Anatomy, University of Rochester School of Medicine, Rochester, New York

ISBN: 9780443117312
PREVIOUS ISBN: 9780323509596
PUB DATE: Apr 25, 2024
LIST PRICE: £17.99 / \$22.99 / €21.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 332
AUDIENCE: Students in neuroscience courses or who are preparing for an upcoming neuroscience course/program (these range from high school students and premeds to medical and health professions students and students in neuroscience research, linguistics, etc.)
BIC CODES: MFC
THEMA CLASSIFICATION: THEMAMFC

A fun and relaxing way to gain a better understanding of neuroscience

KEY FEATURES

More than “just” a coloring book, this unique learning tool offers:

- **More than 145 key topics in neuroscience and neuroanatomy**, using bold, clear drawings based on classic Netter art.
- **Coloring exercises** for visual and tactile learning as you trace pathways and tracts, reinforcing spatial, functional, and clinical concepts in this fascinating field.
- **A clear organization with 4 major sections:** (1) Overview of the nervous system; (2) regional neuroscience; (3) systemic neuroscience; and (4) global neuroscience.
- **Three major components for each topic and accompanying illustrations:** What is it and what does it do?; Color the most important structures; and What is the functional and clinical significance?
- **Text revision based on extensive student feedback.**
- **New coloring exercises** on Endogenous Opioid Systems, Insular Cortex, Prefrontal Cortex, Dementias, Alzheimer's Disease, Posttraumatic Stress, Traumatic Brain Injury (TBI), and Brain Substrates of Addictive Disorders.
- **Clinical Notes** that bridge basic science with health care and medicine.

Expanded workbook review questions and bulleted lists throughout to reinforce comprehension and retention.

DESCRIPTION

Reinforce your knowledge of neuroanatomy, neuroscience, and common neurologic disorders with this active, engaging, and relaxing review method! *Netter's Neuroscience Coloring Book, 2nd Edition*, makes abstract concepts more concrete as you **use color and tactile movement to reinforce your memory and understanding** of the brain, spinal cord, and peripheral nervous system. It's a fun and interactive way to learn and review a complex but fascinating subject—whether you're taking a course in neuroscience, preparing for a neuroscience program, or planning a career in research, science, or medicine and healthcare.



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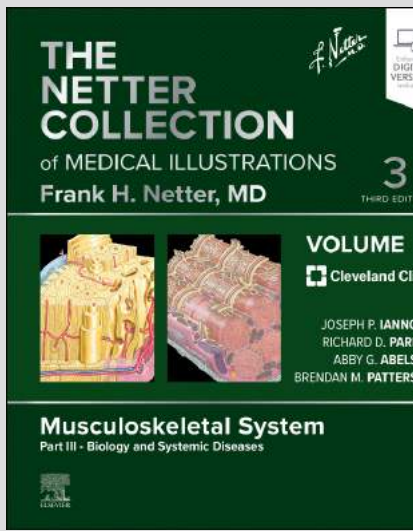
Medical Education Anatomy

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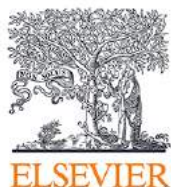
The Netter Collection of Medical Illustrations: Musculoskeletal System, Volume 6, Part III - Biology and Systemic Diseases, 3e

Edited by : **Joseph Iannotti**, MD, PhD, Professor, Orthopaedic Surgery, Cleveland Clinic Lerner College of Medicine, Case Western University, Chief of Staff, Chief Academic and Innovation Officer, Cleveland Clinic Florida Region; **Richard Parker**, MD, President, Cleveland Clinic Hillcrest and Eastern Region, Professor; **Tom Mroz**, MD, Chair, Orthopaedic and Rheumatology Institute, Cleveland Clinic Main Campus; **Brendan Patterson**, MD, Chair, Orthopaedic Department, Cleveland Clinic Main Campus and **Abby Abelson**, MD, Chair of Rheumatologic and Immunologic Disease Department, Cleveland Clinic Main Campus

ISBN: 9780323880879
 PREVIOUS ISBN: 9781416063797
 PUB DATE: Apr 17, 2024
 LIST PRICE: £69.99 / \$107.99 / €80.99
 DISCOUNT: Reference
 FORMAT: Hardback
 TRIM: 8.50w x 10.875h
 PAGES: c. 356
 ILLUSTRATIONS: 300 illustrations (300 in full color)
 AUDIENCE: Diverse worldwide market; both practitioners and trainees across medical and health professions; institutions For the series: medical schools with a systems-based curriculum (students, instructors, staff, library); clinical practitioners at all levels (especially nonspecialists and specialists interested in areas outside of their specialty); Netter fans and gift-buyers for Netter fans. For the book/volume: offices/depts/individuals in orthopaedics, physical therapy, rheumatology, and other musculoskeletal specialties. Much of the content will be superficial for their daily practice purposes, but it will be appreciated for its artistic depictions of the field and something to be used with patients, staff, and students/trainees.
 BIC CODES: MFC
 THEMA CLASSIFICATION: THEMAMFC



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An exquisite visual overview of every body system, as only Netter can provide

A Volume in the *Netter Green Book Collection Series*

KEY FEATURES

- Provides a **highly visual guide** to embryology and physiology, metabolic disorders, congenital and development disorders, rheumatic diseases, tumors of the musculoskeletal system, injury to the musculoskeletal system, soft tissue infections, and fracture complications.
- Provides a **concise overview of complex information** by seamlessly integrating anatomical and physiological concepts using practical clinical scenarios.
- Shares the **experience and knowledge** of Drs. Joseph P. Iannotti, Richard D. Parker, Abby G. Abelson, and Brendan M. Patterson, and esteemed colleagues from the Cleveland Clinic, who clarify and expand on the illustrated concepts.
- Compiles **Dr. Frank H. Netter's master medical artistry**—an aesthetic tribute and source of inspiration for medical professionals for over half a century—along with new art in the Netter tradition for each of the major body systems, making this volume a powerful and memorable tool for building foundational knowledge and educating patients or staff.
- **NEW! An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, make notes and highlights, and have content read aloud.

DESCRIPTION

Offering a **concise, highly visual approach** to the basic science and clinical pathology of the musculoskeletal system, this updated volume in *The Netter Collection of Medical Illustrations* (the CIBA "Green Books") contains unparalleled didactic illustrations reflecting the latest medical knowledge. Revised by Drs. Joseph Iannotti, Richard Parker, Abby G. Abelson, Brendan M. Patterson, and other experts from the Cleveland Clinic, *Biology and Systemic Diseases, Part 3 of Musculoskeletal System, Volume 6, integrates core concepts of anatomy, physiology, and other basic sciences with common clinical correlates across health, medical, and surgical disciplines. **Classic Netter art, updated and new illustrations, and modern imaging** continue to bring medical concepts to life and make this timeless work an essential resource for students, clinicians, and educators.*

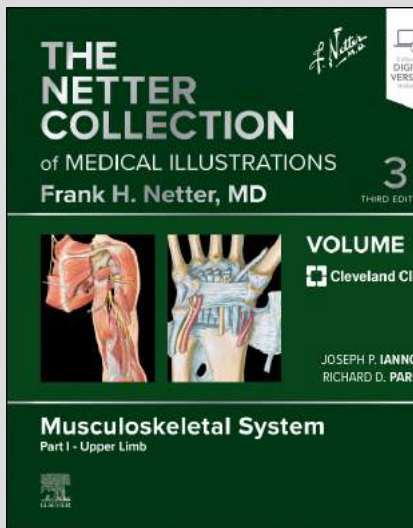
Medical Education Anatomy

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The Netter Collection of Medical Illustrations: Musculoskeletal System, Volume 6, Part I - Upper Limb, 3e

Edited by : **Joseph Iannotti**, MD, PhD, Professor, Orthopaedic Surgery, Cleveland Clinic Lerner College of Medicine, Case Western University, Chief of Staff, Chief Academic and Innovation Officer, Cleveland Clinic Florida Region; **Richard Parker**, MD, President, Cleveland Clinic Hillcrest and Eastern Region, Professor; **Tom Mroz**, MD, Chair, Orthopaedic and Rheumatology Institute, Cleveland Clinic Main Campus; **Brendan Patterson**, MD, Chair, Orthopaedic Department, Cleveland Clinic Main Campus and **Abby Abelson**, MD, Chair of Rheumatologic and Immunologic Disease Department, Cleveland Clinic Main Campus

ISBN: 9780323880886
PREVIOUS ISBN: 9781416063803
PUB DATE: Apr 17, 2024
LIST PRICE: £69.99 / \$107.99 / €80.99
DISCOUNT: Reference
FORMAT: Hardback
TRIM: 8.50w x 10.875h
PAGES: c. 244
ILLUSTRATIONS: 216 illustrations (216 in full color)
AUDIENCE: Diverse worldwide market; both practitioners and trainees across medical and health professions; institutions For the series: medical schools with a systems-based curriculum (students, instructors, staff, library); clinical practitioners at all levels (especially nonspecialists and specialists interested in areas outside of their specialty); Netter fans and gift-buyers for Netter fans. For the book/volume: offices/depts/individuals in orthopaedics, physical therapy, rheumatology, and other musculoskeletal specialties. Much of the content will be superficial for their daily practice purposes, but it will be appreciated for its artistic depictions of the field and something to be used with patients, staff, and students/trainees.
BIC CODES: MFC
THEMA CLASSIFICATION: THEMAMFC



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An exquisite visual overview of every body system, as only Netter can provide

A Volume in the *Netter Green Book Collection Series*

KEY FEATURES

- Provides a **highly visual guide to the shoulder, upper arm and elbow, forearm and wrist, and hand and finger**, from basic science and anatomy to orthopaedics and rheumatology.
- Covers **new topics** including surgical management of irreparable tears: supraspinatus and infraspinatus cuff, and subscapularis.
- Provides a **concise overview of complex information** by seamlessly integrating anatomical and physiological concepts using practical clinical scenarios.
- Shares the **experience and knowledge** of Drs. Joseph P. Iannotti, Richard D. Parker, and esteemed colleagues from the Cleveland Clinic, who clarify and expand on the illustrated concepts.
- Compiles **Dr. Frank H. Netter's master medical artistry**—an aesthetic tribute and source of inspiration for medical professionals for over half a century—along with new art in the Netter tradition for each of the major body systems, making this volume a powerful and memorable tool for building foundational knowledge and educating patients or staff.
- **NEW! An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, make notes and highlights, and have content read aloud.

DESCRIPTION

Offering a **concise, highly visual approach** to the basic science and clinical pathology of the musculoskeletal system, this updated volume in *The Netter Collection of Medical Illustrations* (the CIBA "Green Books") contains unparalleled didactic illustrations reflecting the latest medical knowledge. Revised by Drs. Joseph Iannotti, Richard Parker, and other experts from the Cleveland Clinic, *The Upper Limb, Part 1 of Musculoskeletal System, Volume 6, integrates core concepts of anatomy, physiology, and other basic sciences with common clinical correlates across health, medical, and surgical disciplines. **Classic Netter art, updated and new illustrations, and modern imaging** continue to bring medical concepts to life and make this timeless work an essential resource for students, clinicians, and educators.*

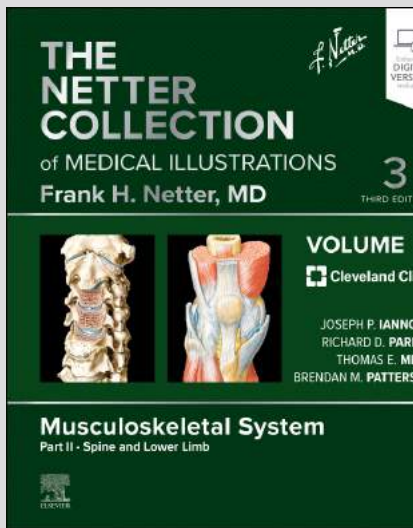
Medical Education Anatomy

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The Netter Collection of Medical Illustrations: Musculoskeletal System, Volume 6, Part II - Spine and Lower Limb, 3e

Edited by : **Joseph P Iannotti**, M.D., Ph.D., Chairman, Orthopaedic and Rheumatologic Institute The Cleveland Clinic; **Richard Parker**, M.D., Chairman, Department of Orthopaedic Surgery, Cleveland Clinic; **Tom Mroz**, MD, Chair, Orthopaedic and Rheumatology Institute, Cleveland Clinic Main Campus; **Brendan Patterson**, MD, Chair, Orthopaedic Department, Cleveland Clinic Main Campus and **Abby Abelson**, MD, Chair of Rheumatologic and Immunologic Disease Department, Cleveland Clinic Main Campus

ISBN: 9780323881289
PREVIOUS ISBN: 9781416063827
PUB DATE: Apr 17, 2024
LIST PRICE: £66.99 / \$107.99 / €80.99
DISCOUNT: Reference
FORMAT: Hardback
TRIM: 8.50w x 10.875h
PAGES: c. 260
ILLUSTRATIONS: 237 illustrations (237 in full color)
AUDIENCE: Diverse worldwide market; both practitioners and trainees across medical and health professions; institutions For the series: medical schools with a systems-based curriculum (students, instructors, staff, library); clinical practitioners at all levels (especially nonspecialists and specialists interested in areas outside of their specialty); Netter fans and gift-buyers for Netter fans. For the book/volume: offices/depts/individuals in orthopaedics, physical therapy, rheumatology, and other musculoskeletal specialties. Much of the content will be superficial for their daily practice purposes, but it will be appreciated for its artistic depictions of the field and something to be used with patients, staff, and students/trainees.
BIC CODES: MFC
THEMA CLASSIFICATION: THEMAMFC



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An exquisite visual overview of every body system, as only Netter can provide

A Volume in the *Netter Green Book Collection* Series

KEY FEATURES

- Provides a **highly visual guide to the spine; pelvis, hip, and thigh; knee; lower leg; and ankle and foot**, from basic science and anatomy to orthopaedics and rheumatology.
- Covers **new orthopaedic diagnostics and therapeutics** from radiology to surgical and laparoscopic approaches.
- Shares the **experience and knowledge** of Drs. Joseph P. Iannotti, Richard D. Parker, Tom E. Mroz, and Brendan M. Patterson, and esteemed colleagues from the Cleveland Clinic, who clarify and expand on the illustrated concepts.
- Compiles **Dr. Frank H. Netter's master medical artistry**—an aesthetic tribute and source of inspiration for medical professionals for over half a century—along with new art in the Netter tradition for each of the major body systems, making this volume a powerful and memorable tool for building foundational knowledge and educating patients or staff.
- **NEW! An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, make notes and highlights, and have content read aloud.

DESCRIPTION

Offering a **concise, highly visual approach** to the basic science and clinical pathology of the musculoskeletal system, this updated volume in *The Netter Collection of Medical Illustrations* (the CIBA "Green Books") contains unparalleled didactic illustrations reflecting the latest medical knowledge. Revised by Drs. Joseph Iannotti, Richard Parker, Tom Mroz, Brendan Patterson, and other experts from the Cleveland Clinic, *Spine and Lower Limb, Part 2 of Musculoskeletal System, Volume 6*, **integrates core concepts of anatomy, physiology, and other basic sciences with common clinical correlates** across health, medical, and surgical disciplines. **Classic Netter art, updated and new illustrations, and modern imaging** continue to bring medical concepts to life and make this timeless work an essential resource for students, clinicians, and educators.

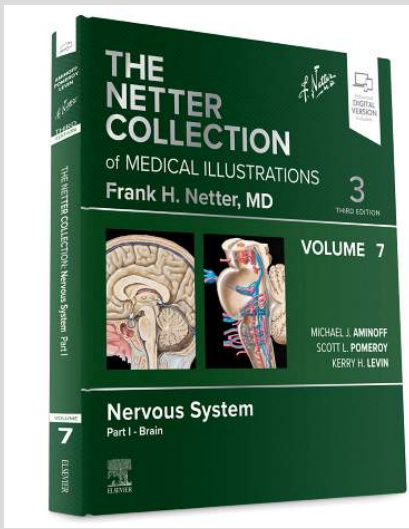
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The Netter Collection of Medical Illustrations: Nervous System Package, 3e

2-Book Set

Michael J. Aminoff, MD, DSc, FRCP, Distinguished Professor Emeritus in Neurology; University of California San Francisco and **Ted Burns**, MD, Professor of Neurology, University of Virginia, Charlottesville, Virginia

ISBN: 9780323881708

PREVIOUS ISBN: 9781416063841

PUB DATE: Apr 15, 2024

LIST PRICE: £103.99 / \$159.99 /

€119.99

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 292 x 241

PAGES: c. 900

ILLUSTRATIONS: 900 illustrations
(900 in full color)

AUDIENCE: Diverse worldwide market; both practitioners and trainees across medical and health professions; institutions For the series: medical schools with a systems-based curriculum (students, instructors, staff, library); clinical practitioners at all levels (especially nonspecialists and specialists interested in areas outside of their specialty); Netter fans and gift-buyers for Netter fans. For the book/volume: offices/depts/individuals in neurology; psychiatry; neuroscience research; linguistics; psychology; rehabilitation medicine

BIC CODES:

THEMA CLASSIFICATION:

THEMAMKJ



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An exquisite visual overview of every body system, as only Netter can provide

A Volume in the *Netter Green Book Collection* Series

KEY FEATURES

- Provides a **highly visual guide to the entire nervous system in two convenient parts**, including anatomy, pathology, and major clinical syndromes.
- Offers **new and expanded coverage of key topics** such as spinal muscular atrophy, acute flaccid paralysis; neurological complications of COVID-19, ependymomas, genetics of epilepsy, and more.
- Provides a **concise overview of complex information** by integrating anatomical and physiological concepts with clinical scenarios.
- Shares the **experience and knowledge** of Drs. Michael J. Aminoff, Scott L. Pomeroy, and Kerry H. Levin, and other experts at leading neurology centers.
- Compiles **Dr. Frank H. Netter's master medical artistry**—an aesthetic tribute and source of inspiration for medical professionals for over half a century—along with new art in the Netter tradition for each of the major body systems, making this volume a powerful and memorable tool for building foundational knowledge and educating patients or staff.
- **NEW! An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, make notes and highlights, and have content read aloud.

DESCRIPTION

Offering a **concise, highly visual approach** to the basic science and clinical pathology of the nervous system, this updated two-book volume in *The Netter Collection of Medical Illustrations* (the CIBA "Green Books") contains unparalleled didactic illustrations reflecting the latest medical knowledge. Revised by Drs. Michael J. Aminoff, Scott L. Pomeroy, and Kerry H. Levin, *Brain* (Part 1) and *Spinal Cord and Peripheral Motor and Sensory Systems* (Part 2) of the *Nervous System, Volume 7*, **integrate core concepts of anatomy, physiology, and other basic sciences with common clinical correlates** across health, medical, and surgical disciplines. **Classic Netter art, updated and new illustrations, and modern imaging** continue to bring medical concepts to life and make this timeless work an essential resource for students, clinicians, and educators.

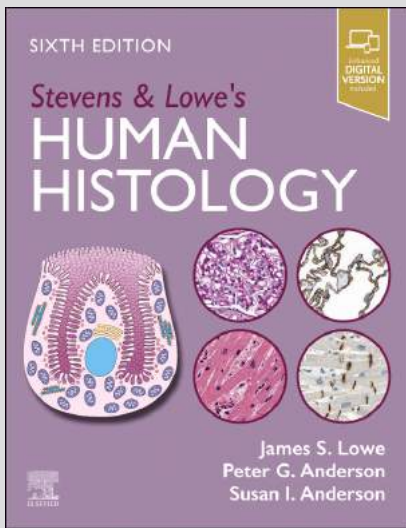
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<https://virtuale.elsevier.com>, www.elsevier.com

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Stevens & Lowe's Human Histology, 6e

James S. Lowe, BMedSci, BMBS, DM, FRCPath, Emeritus Professor of Neuropathology, University of Nottingham Medical School, Nottingham, UK; Formerly, Associate Dean for Medical Education, Nottingham, United Kingdom; **Peter G. Anderson**, DVM, PhD, Professor of Molecular and Cellular Pathology, Director of Pathology Undergraduate Education, Department of Pathology, The University of Alabama at Birmingham, Birmingham, Alabama, USA; **Susan I. Anderson**, BSc, M Med Sc, PhD, Head of Anatomy and Deputy Head of School, School of Life Sciences, Professor of Pathology, University of Nottingham Medical School, Nottingham, United Kingdom; Fellow, Royal Microscopical Society; Honorary Secretary for Education and Outreach; Chair, Nottingham Festival of Science and Curiosity and Vice President, Royal Microscopical Society

ISBN: 9780443109706

PREVIOUS ISBN: 9780323612791

PUB DATE: Apr 02, 2024

LIST PRICE: £57.99 / \$71.99 / €67.99

DISCOUNT: Textbook

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 470

BIC CODES: MFCH

THEMA CLASSIFICATION:

THEMAMFCH

The core histology concepts you need to know

KEY FEATURES

- Easy to read and follow – ideal grounding in the key concepts of histology, covering all the organ systems
- Clear illustrations, over 500 visually-engaging photos and graphics bring concepts to life
- Advanced Concept boxes link histology to cell biology and physiology for wider, integrated subject understanding.
- Clinical example boxes anchors histology to its application in diagnosis as part of pathology and clinical medicine.
- Carefully captioned histological images support development of microscopy skills
- Review questions for self-assessment
- Online review questions and clinical cases to support learning
- Online video support: watch the experts discuss microscopic images and experience how to approach a visual understanding of histology.
- An enhanced eBook version is included with purchase. The eBook allows you to access all the text, figures and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud

DESCRIPTION

This book provides students with a systematic approach to histology which is ideal as a study companion to support students of medicine, biomedical sciences and life sciences in their studies and also as an excellent tool for medical board review.

This sixth edition has been fully updated by experts in the field, *Stevens and Lowe's Human Histology* is designed to provide a highly-visual, well-structured, learning resource.



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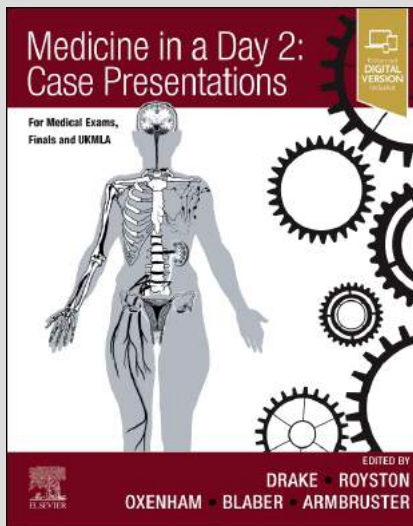
Medical Education Basic Science

<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



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Medicine in a Day 2: Case Presentations

For Medical Exams, Finals, UKMLA and Foundation

Edited by : **Marcus Drake**, MA, DM, FRCS (Urol), Academic Lead, Final Year, Bristol Medical School, Bristol, UK; **Alexander Royston**; **Gregory Oxenham**, MB ChB, BA, Junior ED Registrar, Palmerston North Hospital, MidCentral DHB, NZ; **Hollie Blaber**, MB ChB, BSc, Foundation Year Doctor, Milton Keynes University Hospital, Buckinghamshire, UK and **Berenice Aguirrezabala Armbruster**, MB ChB, BSc

ISBN: 9780323847698
PUB DATE: Apr 15, 2024
LIST PRICE: £34.99 / \$43.99 / €40.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 540
BIC CODES: MJ
THEMA CLASSIFICATION:
THEMAMJ

Unique case-based learning and revision aid - with all UKMLA presentations covered

KEY FEATURES

- Covers 201 common presentations, including key differentials and investigations at a glance
- Reflects the requirements of Medical Finals and covers all the core 'Presentations' in the new UKMLA curriculum outline
- Succinct and easy to navigate – won't overload you in the lead up to the exams
- Key points summaries and consistent format throughout keep key facts front-of-mind
- Clinical case presentations reflect current teaching and learning approaches and support development of problem-solving skills required by medical students and doctors in training
- Questions with answers to check your understanding and aid revision
- Written by a team that understands what is essential for success

DESCRIPTION

Aligned to current learning methods and medical exam requirements - including the new UK Medical Licensing Assessment - this invaluable collection of clinical cases will help you apply information effectively, quickly identify and fill any knowledge gaps and prepare efficiently for your exams. Prepared by a unique combination of authors - including early career stage doctors still close to what is required for exam success, expert educators and senior specialists - *Medicine in a Day: Case Presentations for Medical Exams and UKMLA* provides the trusted information you need most when time is short. Over 200 cases have been carefully selected to ensure comprehensive coverage – including for all the core 'Presentations' in the new UKMLA curriculum map – as well as to help you hone the essential problem-solving skills you need to excel on your course, in your exams and in clinical practice. Quick access summaries with each case – including the key differentials and investigations at a glance – aid rapid recall and avoids information overload. *Medicine in a Day: Case Presentations for Medical Exams and UKMLA* is highly effective as a stand-alone resource – but combine with the acclaimed companion volume *Medicine in a Day: Revision Notes for Medical Exams, Finals, UKMLA and Foundation Years* and be assured you have all the prescribed UKMLA 'presentations' and 'conditions' fully covered. *Medicine in a Day* – the complete and effective exam preparation solution!



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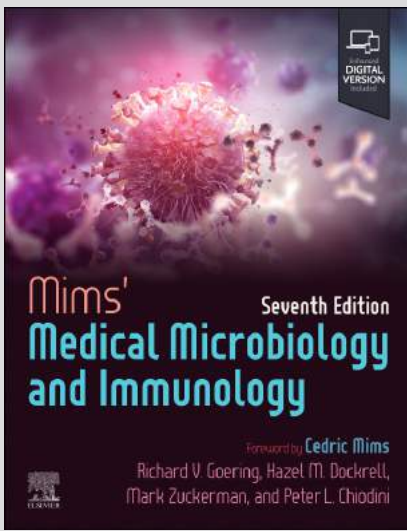
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Students

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Mims' Medical Microbiology and Immunology, 7e

Richard Goering, BA MSc PhD, Professor and Chair, Department of Medical Microbiology and Immunology, Creighton University School of Medicine, Omaha, Nebraska.; **Hazel M. Dockrell**, BA (Mod) PhD, Professor of Immunology, Faculty of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, UK; **Mark Zuckerman**, BSc(Hons), MBBS, MRCP, MSc, FRCPath, Consultant Virologist and Honorary Senior Lecturer, South London Specialist Virology Centre, King's College Hospital NHS Foundation Trust, King's College London School of Medicine, London, UK; **Peter L. Chiodini**, BSc, MBBS, PhD, FRCP, FRCPath, FFTM, RCPS(Glas), Consultant Parasitologist, Hospital for Tropical Diseases, London and Honorary Professor, London School of Hygiene and Tropical Medicine, London, UK

ISBN: 9780323937252
PREVIOUS ISBN: 9780702071560
PUB DATE: Apr 19, 2024
LIST PRICE: £62.99 / \$89.99 / €73.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 608
ILLUSTRATIONS: 500
BIC CODES:
THEMA CLASSIFICATION:
THEMAMKFM; THEMAMJCM

International Edition Available

ISBN: 9780808924401
LIST PRICE: £20.99 / \$31.95 / €23.99
This edition is not for sale in Only EMEA IE territories

Core textbook uniting key concepts of microbiology and immune response

KEY FEATURES

- Clear writing and easy-to-understand explanations – perfect for students learning to grasp the fundamentals of both microbiology and immunology
- User-friendly format with colour coding, key concept boxes, and dynamic illustrations for easy navigation
- Organised by body system – goes beyond the 'bug parade' to help you understand clinical context
- Pathogen Parade (electronic supplement) – a quick cross-referenced glossary of viruses, bacteria, parasites, and fungi
- Vaccine Parade (electronic supplement) – quick-reference coverage of the most commonly used vaccines in current clinical practice
- Clinical cases and multiple-choice self-assessments (electronic supplement) support learning

DESCRIPTION

MIMS' Medical Microbiology and Immunology is loved internationally for its thorough yet easy-to-follow coverage of microbiology, infectious diseases, and immunology as a dynamic interplay between microbes and host. Covering the fundamentals of these closely linked disciplines, *MIMS'* takes a systems approach to elaborate on epidemiology, clinical presentation, pathogenesis, and diagnostic approaches, as well as treatment and infection control considerations, supplemented by case-based examples. Complex scientific and clinical concepts are explained clearly and simply with the help of illustrations and a range of accompanying online content. Students will come away with a deep understanding of topics and processes, and will return to this book for reference time and again.



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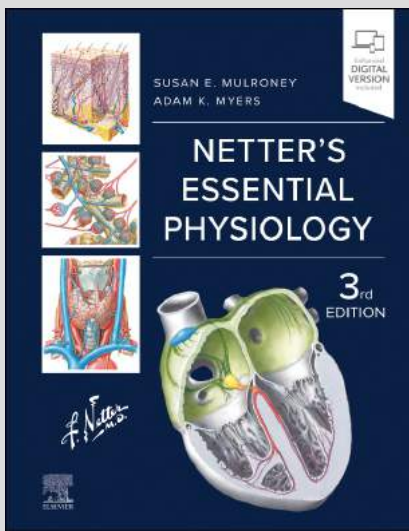


Medical Education Basic Science
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



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Netter's Essential Physiology, 3e

Susan Mulroney, PhD, Department of Physiology, Georgetown University Medical Center, Washington, District of Columbia and Adam Myers, PhD, Department of Physiology and Biophysics, Georgetown University School of Medicine, Washington, District of Columbia

ISBN: 9780443113635
PREVIOUS ISBN: 9780323358194
PUB DATE: Apr 15, 2024
LIST PRICE: £56.99 / \$69.99 / €64.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 406
AUDIENCE: Students of physiology (programs range from medicine to allied health)
BIC CODES: MFG
THEMA CLASSIFICATION: THEMAMFG

Netter's concise, highly visual approach to must-know physiology

A Volume in the *Netter Basic Science Series*

KEY FEATURES

- Uses **beautifully clear drawings and diagrams from the Netter collection** to teach key points quickly, effectively, and memorably.
- Contains **"light bulb" boxes** that use memorable details or examples to foster "a-ha" learning moments.
- Includes **expanded pathophysiology content with more clinical correlates**, including the fallacy of race-dependent differences in normal GFR values and pulmonary function.
- Features **new illustrations** for GI physiology, and updated figures throughout to better reflect the **diversity in human populations**.
- Contains **more practice questions** per section.
- Provides **video tutorials** that explain challenging but essential physiology concepts.
- **An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, plus videos and additional self-assessment questions, with the ability to search, make notes and highlights, and have content read aloud.

Evolve Instructor site with image bank is available to instructors through their Elsevier sales rep or via request at <https://evolve.elsevier.com>.

DESCRIPTION

Clear, focused, and highly visual, *Netter's Essential Physiology, 3rd Edition*, uses a concise, clinical approach to help you grasp key concepts quickly and easily. Illustrated by the world-renowned Frank H. Netter, MD, and artists working in his tradition, this readable text combines **easy-to-understand prose with clinical correlations, "light bulb" side notes, end-of-chapter questions, and helpful videos** to ensure a complete understanding of complex content. It's an ideal text for a basic understanding of physiology, as an overview of the subject, or as a supplement to lectures.



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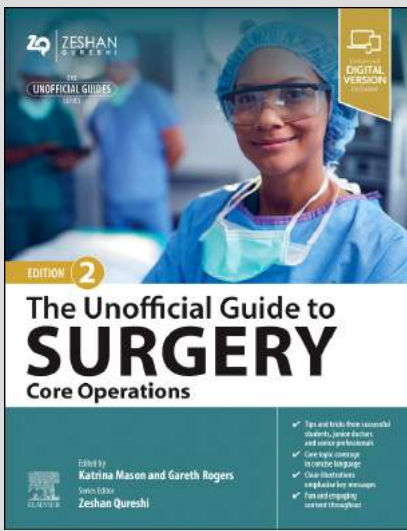


Medical Education Physiology
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Also includes resources via:



eBooks+



The Unofficial Guide to Surgery: Core Operations, 2e

Indications, Pre-op Care, Procedure Details, Post-op Care and Follow-up

Edited by : **Katrina Mason**, BSc (Hons) MBChB MRCS (ENT), Ear, Nose, and Throat Specialist Registrar, St George's Hospital, London, UK; **Gareth Rogers**, MBChB, BSc (Hons), MRCS Ed, ST2 Trauma and Orthopaedic Surgery, North West Deanery: ROH and **Zeshan Qureshi**, BM, BSc (Hons), MSc, MRCPCH, FAcadMed, MRCPS(Glasg), Paediatric Registrar, London Deanery, United Kingdom

ISBN: 9780443114786
PREVIOUS ISBN: 9780957149991
PUB DATE: Apr 16, 2024
LIST PRICE: £39.99 / \$49.99 / €46.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 530
ILLUSTRATIONS: Approx. 277 illustrations (277 in full color)
BIC CODES: MNC
THEMA CLASSIFICATION: THEMAMNC

Everything you need to know before you step into the OT

A Volume in the *Unofficial Guides* Series

KEY FEATURES

- Introductory chapter - how to scrub, how to glove and gown, suture techniques, surgical positions
- Includes more than 120 common operations across all the surgical sub-specialties
- Thorough overview of indications and contraindications
- Simple 'step-by-step' guide on how to perform the surgery
- Post-operative course, complications and common questions asked by surgeons
- Two colour illustrations per operation – will help you understand the underlying anatomy as well as the surgical procedure
- Succinct and easy to read throughout
- Diverse range of skin colours and tones - not often seen in other medical textbooks
- An enhanced eBook version is included with purchase. The eBook allows you to access all the text, figures and references, with the ability to search, customise your content, make notes and highlights, and have content read aloud

DESCRIPTION

The unique and award-winning *Unofficial Guides* series is a collaboration between senior students, junior doctors and specialty experts. This combination of contributors understands what is essential to excel on your course, in exams and in practice – as well as the importance of presenting information in a clear, fun and engaging way. Packed with hints and tips from those in the know, when you are in a hurry and need a study companion you can trust, reach for an *Unofficial Guide*.

The *Unofficial Guide to Surgery* provides a succinct yet comprehensive guide to the most common operations - what they are, why people are listed for surgery, how the surgery is done, post-operative care and possible complications. There are full colour illustrations of every procedure.

This book will be invaluable for medical students and junior doctors and also as a day-to-day reference for professionals.



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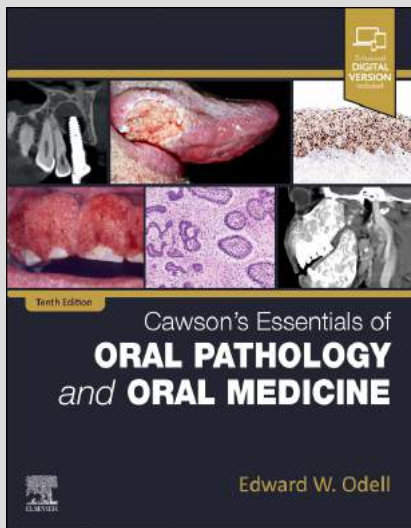
Medical Education UKNL Clinical Students

<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



eBooks+



Cawson's Essentials of Oral Pathology and Oral Medicine, 10e

Edward W Odell, FDSRCS, MSc, PhD, FRCPath, Professor of Oral Pathology and Medicine, King's College London and Honorary Consultant in Oral Pathology, Guy's and St Thomas' NHS Foundation Trust, London

ISBN: 9780323935494
PREVIOUS ISBN: 9780702049811
PUB DATE: Apr 30, 2024
LIST PRICE: £58.99 / \$73.99 / €69.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 592
BIC CODES: MMD
THEMA CLASSIFICATION:
THEMAMKE

International Edition Available!

ISBN: 9780702049811
LIST PRICE: £30.99 / \$47.95 / €42.99
This edition is not for sale in Only International Edition

Must-have guide to oral disease for dentistry students

KEY FEATURES

- Thoroughly updated to include new guidelines, oral diseases and treatments including the new WHO Classification of Tumours 2022 terminology
- Friendly, accessible writing style provides ready access to essential information
- Flow charts to guide the reader through the process of differential diagnosis for a range of conditions
- Evidenced-based throughout to help facilitate safe clinical practice
- Self-assessment to support understanding and problem solving
- Summary charts to aid learning and revision

DESCRIPTION

The tenth edition of this core textbook will prepare the reader to diagnose and treat many different diseases and disorders that they may not have encountered in person before.

The text integrates oral medicine, pathology, and surgical and drug treatment, allowing the reader to apply diagnostic algorithms and develop the key understanding they will need to apply theory to clinical practice.

Originally published in 1962, *Cawson's Essentials of Oral Pathology and Oral Medicine* continues to offer its trademark easy-to-read style, a world-class collection of photographs showing oral conditions, and the latest evidence and guidelines to support safe clinical practice.



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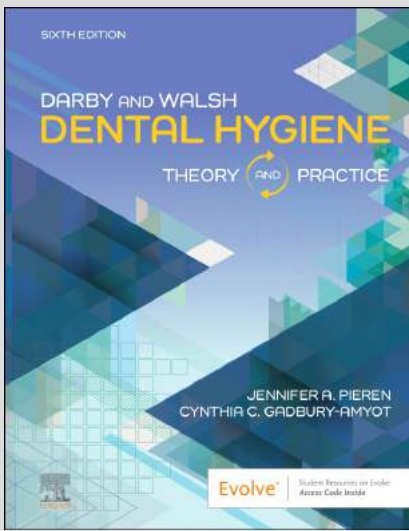
Health Professions I (HP1) UK
Dental

<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



eBooks+



Darby & Walsh Dental Hygiene, 6e

Theory and Practice

Edited by : **Jennifer A Pieren**, RDH, BSAS, MS, Adjunct Faculty, Department of Health Professions – Dental Hygiene, Youngstown State University, Youngstown, Ohio and **Cynthia Gadbury-Amyot**, MSDH, Ed.D, Professor Emerita and Adjunct Professor, School of Dentistry, University of Missouri-Kansas City, Kansas City, Missouri

ISBN: 9780323877824
PREVIOUS ISBN: 9780323477192
PUB DATE: Apr 26, 2024
LIST PRICE: £92.99 / \$128.99 / €104.99
DISCOUNT: Textbook
FORMAT: Hardback
TRIM: 8.50w x 10.875h
PAGES: c. 1086
ILLUSTRATIONS: Approx. 1675 illustrations (1250 in full color)
BIC CODES: MMD
THEMA CLASSIFICATION: THEMAMKE

Master the roles and responsibilities of the dental hygienist with this trusted text

KEY FEATURES

- **Focus on research and evidence-based practice** offers insights from expert chapter authors (educators, practitioners, and researchers) from across the United States and beyond.
- **Expansive art program** features modern illustrations and updated clinical photos to visually reinforce key concepts.
- **Step-by-step procedure boxes** highlight key points with accompanying illustrations, clinical photos, and rationales; online procedure videos are included with new text purchase.
- **Human Needs Conceptual Model/Oral Health Related Quality of Life frameworks**, in which all discussions are presented within the context of a person-centered care model, take the entire person into consideration.
- **Learning aids in each chapter** include professional development opportunities; learning competencies; patient education tips; critical thinking scenarios; and discussions of legal, ethical, and safety issues, which help your practical application and problem-solving skills and bring the profession to life.

DESCRIPTION

Darby & Walsh Dental Hygiene: Theory and Practice, 6th Edition offers everything you need to succeed in your coursework and clinical and professional practice. No other dental hygiene foundational text incorporates clinical competencies, theory, and evidence-based practice in such an approachable way. All discussions — from foundational concepts to diagnosis to pain management — are presented within the context of a unique person-centered model that takes the entire person into consideration. A veritable who's-who of dental hygiene educators, practitioners, and researchers cite the latest studies throughout the text to provide a framework to help you in your decision-making and problem-solving. New to this edition is an increased focus on new and emerging technologies, enhanced coverage of infection control in the time of COVID-19, and new chapters on telehealth and teledentistry and mental health and self-care.



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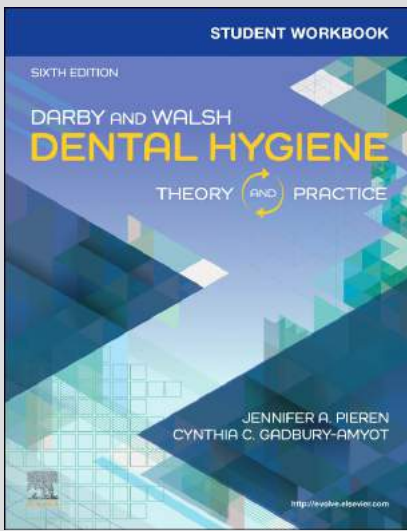
Health Professions I (HP1) Dental Hygiene

<https://virtuale.elsevier.com>, www.elsevier.com

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Student Workbook for Darby & Walsh Dental Hygiene, 6e

Theory and Practice

Jennifer A Pieren, RDH, BSAS, MS, Adjunct Faculty, Department of Health Professions – Dental Hygiene, Youngstown State University, Youngstown, Ohio and **Cynthia Gadbury-Amyot**, MSDH, Ed.D, Professor Emerita and Adjunct Professor, School of Dentistry, University of Missouri-Kansas City, Kansas City, Missouri

ISBN: 9780323882743
PREVIOUS ISBN: 9780323549363
PUB DATE: Apr 26, 2024
LIST PRICE: £37.99 / \$45.99 / €43.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 0
BIC CODES: MMD
THEMA CLASSIFICATION:
THEMAMKE

Hone your dental hygiene knowledge and skills with this hands-on review

KEY FEATURES

- **Patient case studies and video review questions** provide opportunities for assimilation and application of concepts to prepare you for clinical patient encounters.
- **Practice and review questions** include short answer, fill-in-the-blank, and multiple choice to help you prepare for the NBDHE exam.
- **Competency skill checklists** offer clear guidelines for performing each dental hygiene skill.
- **Perforated pages** make it easy to detach forms and bring them along in clinical settings.

DESCRIPTION

Get the hands-on practice and reinforcement you need to master the concepts and skills covered in *Darby & Walsh Dental Hygiene: Theory and Practice, 6th Edition*. The chapters in this workbook directly correlate to the textbook chapters and provide ample review questions and exercises, competency skills evaluation sheets, case studies with questions, and information for the clinical externship and professional portfolio. Applicable chapters also contain a review of video procedures covered in the main text. It's the essential practice and review you need for success in both the classroom and the clinical setting.



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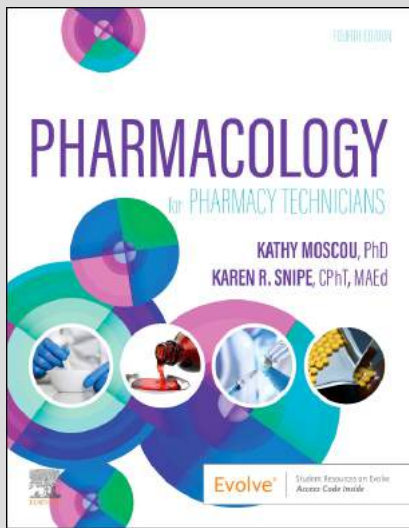
Health Professions I (HP1) Dental Hygiene

<https://virtuale.elsevier.com>, www.elsevier.com

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Pharmacology for Pharmacy Technicians, 4e

Kathy Moscou, PhD, RPh, MPH, Research Affiliate Centre for Aboriginal and Rural Education Studies Brandon University Brandon, Manitoba, Canada Former Director, Pharmacy Technician Program (1989-2006), North Seattle Community College, Vancouver, WA and **Karen Snipe**, CPhT, AS, BA, MEd, Pharmacy Technician Program Coordinator, Department Head, Diagnostic and Imaging Services, Trident Technical College, Charleston, SC

ISBN: 9780323832113
PREVIOUS ISBN: 9780323497220
PUB DATE: Apr 18, 2024
LIST PRICE: £77.99 / \$95.99 / €90.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 606
ILLUSTRATIONS: 500 illustrations
(500 in full color)
AUDIENCE: Pharmacy Technician students • 22,722 enrolled (13,223 for-profit, 9,499 public and private non-profit) Per IPEDS 2017 data
BIC CODES: MQP
THEMA CLASSIFICATION: THEMAMQP

Build a solid foundation in pharmacology with this all-in-one resource

KEY FEATURES

- **Comprehensive coverage** aligns with advanced-level ASHP competencies for accreditation and prepares you for certification.
- **Practical Pharm Tech features** include *Tech Alerts* highlighting drug look-alike and sound-alike issues, *Tech Notes* with need-to-know information on safe drug dispensing, and *Technician's Corner* critical thinking exercises.
- **Coverage of A&P and medical terminology** is included within each body system unit.
- **Quick-reference, mini drug monographs** are included within each body system and drug classification chapter, and include pill photos along with generic and trade names, strength of medication, route of administration, dosage form, dosing schedule, and warning labels.
- **Learning features in each chapter** include learning objectives, key terms, key points, and review questions.
- **Exam preparation** includes two 120-question online practice exams in addition to board-style review questions.
- **Summary drug tables** provide generic/brand name, drug strengths and dosage forms, usual dose and dosing schedule, and warning labels for at-a-glance access to important information.

DESCRIPTION

Build a solid foundation in pharmacology with this all-in-one resource! Combining a comprehensive textbook with workbook exercises, **Pharmacology for Pharmacy Technicians, 4th Edition** helps you understand the principles of pharmacology and apply them to the daily activities and challenges seen in the practice setting. Full-color photos and illustrations make it easier to master concepts, and an in-depth review designed specifically for pharmacy technicians meets the requirements of the American Society of Health-System Pharmacists (ASHP) for anatomy and physiology and pharmacology. Written by a pharmacist and a pharmacy technician, Kathy Moscou and Karen Snipe — each with extensive experience in the field — this book helps you master the expanding role of the pharmacy technician and launch a successful and rewarding career in Pharmacy Technology.



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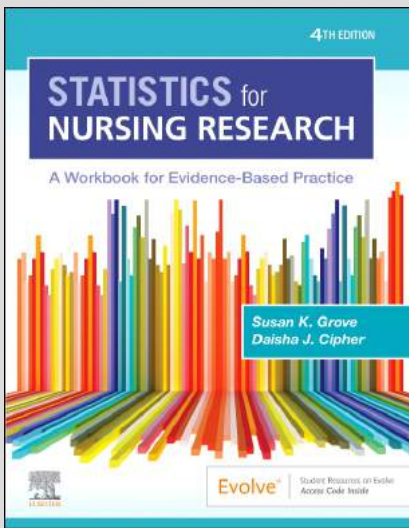


Health Professions II (HP2) Health Occupation
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



eBooks+



Statistics for Nursing Research, 4e

A Workbook for Evidence-Based Practice

Susan K. Grove, PhD, RN, ANP-BC, GNP-BC, Professor Emeritus, College of Nursing and Health Innovation, The University of Texas at Arlington, Arlington, Texas; Adult Nurse Practitioner, Grand Prairie, Texas and **Daisha J. Cipher**, PhD, Associate Professor, College of Nursing and Health Innovation, The University of Texas at Arlington, Arlington, Texas

ISBN: 9780323930505

PREVIOUS ISBN: 9780323654111

PUB DATE: Apr 29, 2024

LIST PRICE: £48.99 / \$66.99 / €56.99

DISCOUNT: Textbook

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 512

BIC CODES: MQC

THEMA CLASSIFICATION:

THEMAMQC

Get the review and practice you need to critically appraise the statistical methods used in published research

KEY FEATURES

- **Comprehensive coverage of basic statistical methods** includes extensive practice with the most common techniques of sampling, measurement, and statistical analysis seen in nursing and health sciences literature.
- **Literature-based approach** uses key excerpts from published studies to reinforce learning through practical application.
- **38 sampling, measurement, and statistical analysis exercises** provide a practical review of both basic and advanced statistical techniques.
- **Study Questions in each chapter** help you examine a statistical technique and apply concepts to an actual literature appraisal.
- **Online submission of answers for Questions for Further Application** allows you to complete exercises in a web-based format and then submit completed exercises to your instructor via email for grading.
- **Consistent format for all chapters** enhances learning and enables quick review.

DESCRIPTION

Get the review and practice you need to critically appraise the statistical methods used in published research! **Statistics for Nursing Research, 4th Edition** helps you understand and interpret statistical methods, sampling and measurement techniques, and statistical analysis techniques. This unique and practical workbook is divided into two parts to differentiate between basic and advanced statistical methods, with dozens of hands-on exercises that will help you practice working with the statistical methods needed for building an evidence-based practice. This workbook is an indispensable resource for any nursing student or practicing nurse wishing to gain competency in conducting statistical analyses.



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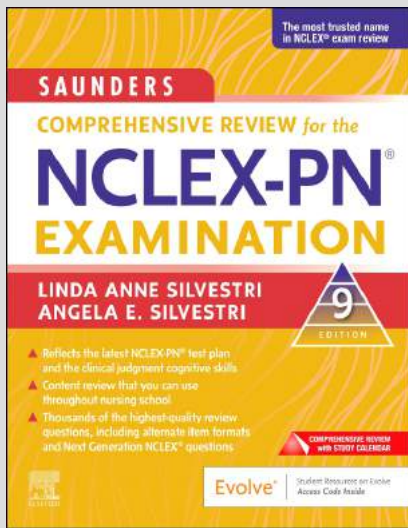
Nursing Nursing

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Saunders Comprehensive Review for the NCLEX-PN® Examination, 9e

Linda Anne Silvestri, PhD, RN, ANEF, FAAN, Nursing Instructor, University of Nevada, Las Vegas Las, Nevada; President, Nursing Reviews, Inc. and Professional Nursing Seminars, Inc. Henderson, Nevada; Elsevier Next Generation NCLEX® (NGN) Thought Leader and Angela Silvestri, PhD, APRN, FNP-BC, CNE, Assistant Professor Touro University Nevada-School of Nursing

ISBN: 9780443112874
PREVIOUS ISBN: 9780323733052
PUB DATE: Apr 09, 2024
LIST PRICE: £46.99 / \$63.99 / €51.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 1094
BIC CODES: MQC
THEMA CLASSIFICATION:
THEMAMQC

Prepare for success on the NCLEX-PN® exam with this complete review and more than 4,600 practice questions

KEY FEATURES

- **More than 4,600 practice questions** in the text and on the Evolve companion website offer ample testing practice.
- **Detailed test-taking strategy** is included for each question, offering clues for analyzing and uncovering the correct answer option, with rationales provided for both correct and incorrect answers.
- **Pyramid Points icons** indicate important information, identifying content that is likely to appear on the NCLEX-PN examination.
- **Pyramid Alerts** appear in red text, highlighting important nursing concepts and identifying content that typically appears on the NCLEX-PN examination.
- **Priority Concepts** — two in each chapter — discuss important content and nursing interventions and reflect the latest edition of Giddens' *Concepts for Nursing Practice* text.
- **Priority Nursing Action boxes** provide information about the steps nurses will take in clinical situations requiring clinical judgment and prioritization.
- **New graduate's perspective** is offered on how to prepare for the NCLEX-PN, in addition to nonacademic preparation, the CAT format, and test-taking strategies.
- **Mnemonics** are included to help you remember important information.
- **Alternate item format questions** cover multiple-response, prioritizing (ordered response), fill-in-the-blank, figure/illustration (hot spot), chart/exhibit, and audio questions.

DESCRIPTION

Get the best review for the NCLEX-PN® exam from the leading NCLEX® experts! Written by Linda Anne Silvestri and Angela E. Silvestri, **Saunders Comprehensive Review for the NCLEX-PN® Examination, 9th Edition**, provides everything you need to prepare for success on the NCLEX-PN. The book includes a review of all nursing content areas, more than 4,600 questions for the NCLEX, detailed rationales, test-taking tips and strategies, and questions for the Next-Generation NCLEX (NGN). The Evolve companion website simulates the exam-taking experience with customizable practice questions along with realistic practice tests. Based on Silvestri's proven *Pyramid to Success*, this complete review is a perennial favorite of students preparing for the NCLEX.



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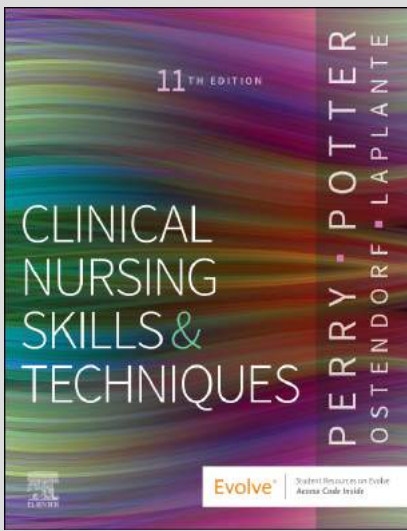
Nursing LPN Nursing

<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



eBooks+



Clinical Nursing Skills and Techniques, 11e

Anne G. Perry, RN, MSN, EdD, FAAN, Professor Emerita, School of Nursing, Southern Illinois University, Edwardsville, Illinois; **Patricia A. Potter**, RN, PhD, FAAN, Director of Research, Patient Care Services, Barnes-Jewish Hospital, St. Louis, Missouri; **Wendy R. Ostendorf**, RN, MS, EdD, CNE, Contributing Faculty, Masters of Science in Nursing, Walden University, Minneapolis, Minnesota, USA and **Nancy Laplante**, PhD, RN, AHN-BC

ISBN: 9780443107184
PREVIOUS ISBN: 9780323708630
PUB DATE: Apr 08, 2024
LIST PRICE: £88.99 / \$128.99 / €103.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 1376
BIC CODES:
THEMA CLASSIFICATION:
THEMAMQCA

Learn more than 200 nursing skills and prepare for success on the Next-Generation NCLEX® Examination

KEY FEATURES

- Comprehensive coverage includes **more than 200 basic, intermediate, and advanced nursing skills and procedures.**
- **Rationales for each step within skills** explain the "why" as well as the "how" of each skill and include citations from the current literature.
- **Clinical Judgments** alert you to key steps that affect patient outcomes and help you modify care as needed to meet individual patient needs.
- **UNIQUE! Unexpected Outcomes and Related Interventions sections** highlight what might go wrong and how to appropriately intervene.
- **Clinical Review Questions at the end of each chapter** provides case-based review questions that focus on issues such as managing conflict, care prioritization, patient safety, and decision-making.
- **More than 1,200 full-color photos and drawings** help you visualize concepts and procedures.
- **Nursing process format** provides a consistent presentation that helps you apply the process while learning each skill.

DESCRIPTION

Learn the clinical nursing skills you will use every day and prepare for success on the Next-Generation NCLEX® Examination! **Clinical Nursing Skills & Techniques, 11th Edition** provides clear, step-by-step guidelines to more than 200 basic, intermediate, and advanced skills. With more than 1,200 full-color illustrations, a nursing process framework, and a focus on evidence-based practice, this manual helps you learn to think critically, ask the right questions at the right time, and make timely decisions. Written by a respected team of experts, this trusted text is the bestselling nursing skills book on the market!



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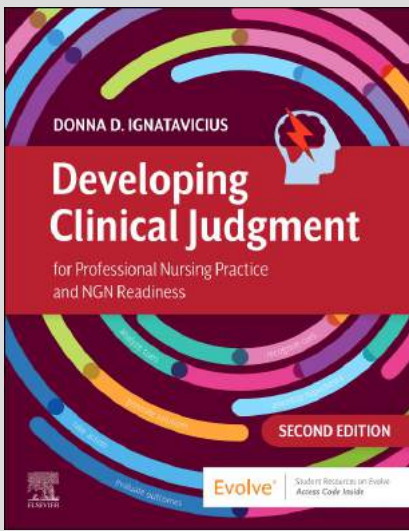


Nursing Nursing
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Also includes resources via:



eBooks+



Developing Clinical Judgment for Professional Nursing Practice and NGN Readiness, 2e

Donna D. Ignatavicius, MS, RN, CNE, CNEcl, ANEF, FAADN, Speaker and Curriculum Consultant for Academic Nursing Programs; Founder, Boot Camp for Nurse Educators; President, DI Associates, Inc. Littleton, Colorado, United States and Tami Little, DNP, RN, Corporate Director of Nursing, Vista College, Richardson, Texas

ISBN: 9780323935388
PREVIOUS ISBN: 9780323718585
PUB DATE: Apr 05, 2024
LIST PRICE: £42.99 / \$52.99 / €49.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 464
BIC CODES: MQC
THEMA CLASSIFICATION:
THEMAMQC; THEMAMQCA

Develop the clinical judgment skills needed to pass the Next-Generation NCLEX-RN® Exam on your first try with this one-of-a-kind workbook!

KEY FEATURES

- **Emphasis on clinical judgment skills** helps you prepare for the Next-Generation NCLEX-RN® Examination (NGN) through practical thinking exercises in which you apply the cognitive skills delineated in the National Council of State Boards of Nursing (NCSBN) Clinical Judgment Measurement Model (CJMM) to realistic case studies.
- **Comprehensive collection of clinical reasoning exercises** allows you to answer questions ranging from basic to more complex, each based on a challenging client situation.
- **Evolve website** offers the opportunity to answer questions in an interactive format for a realistic test-taking experience with automated scoring and remediation.
- **Answer key at the end of the book** includes detailed rationales and references for each question.
- **Questions organized into six parts** address all core clinical areas, guiding you through the entire NGN test plan.

DESCRIPTION

Develop the clinical judgment skills needed to pass the Next-Generation NCLEX-RN® Exam (NGN) on your first try with this one-of-a-kind workbook! **Developing Clinical Judgment for Professional Nursing Practice and NGN Readiness, 2nd Edition** provides practical thinking exercises and case studies to help you build clinical judgment skills and make safe clinical decisions. The workbook offers practice with all NGN item types, including the new "bowtie" items. And all core nursing content areas are covered, with chapters organized to guide you through the entire NGN test plan. From renowned nursing educators Donna D. Ignatavicius and Tami Little, this practical resource ensures that you're ready for all of the item types you will encounter on the NGN and ready to apply clinical judgment skills in RN practice.



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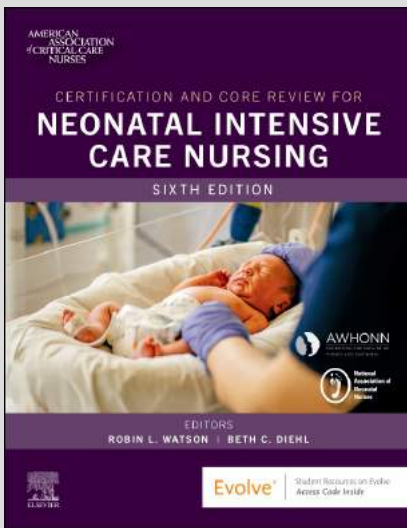


Nursing Nursing
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



eBooks+



Certification and Core Review for Neonatal Intensive Care Nursing, 6e

AACN

ISBN: 9780323672245
PREVIOUS ISBN: 9780323391290
PUB DATE: Apr 01, 2024
LIST PRICE: £83.99 / \$103.99 / €98.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 170
BIC CODES: MQQL2
THEMA CLASSIFICATION:
THEMAMQQL2

Prepare for success on your neonatal intensive care nursing certification examinations

KEY FEATURES

- **Authored by the American Association of Critical-Care Nurses (AACN)** and endorsed by the Association of Women's Health, Obstetric, and Neonatal Nurses (AWHONN); and the National Association of Neonatal Nurses (NANN).
- **Answers for each question**, accompanied by rationales and references for correct answers, enhance understanding of the material.
- **Realistic exam practice questions** mirror the certification exam content, the multiple-choice format, and the distribution of content.
- **Online exam simulation**, included free on the Evolve companion website with each new book purchase, mirrors the test-taking experience with questions organized according to either of the two major certification examinations — the AACN's CCRN[®]-Neonatal exam or the NCC's Neonatal Intensive Care (RNC-NIC) exam. You can choose whether to work through the questions in **Study Mode or Examination Mode**, with complete remediation that includes rationales for both correct and incorrect answers.
- **Compact, portable size** facilitates study anytime, anywhere.

DESCRIPTION

Get ready for your neonatal intensive care nursing certification exam with the only exam review developed in collaboration with three leading nursing organizations! From AACN, AWHONN, and NANN, **Certification and Core Review for Neonatal Intensive Care Nursing, 6th Edition** prepares you for your examination with hundreds of high-quality study questions and realistic test simulation. Based on the latest test plans of the AACN's CCRN[®]-Neonatal exam and the NCC's Neonatal Intensive Care Nursing (RNC-NIC) exam, review questions cover the changes to the *Core Curriculum* and reflect the latest evidence, essential knowledge, and best practices. A powerful review tool on the companion Evolve website allows you to choose either the AACN or NCC question formats, and review material either in *Study Mode* or in *Exam Mode*.



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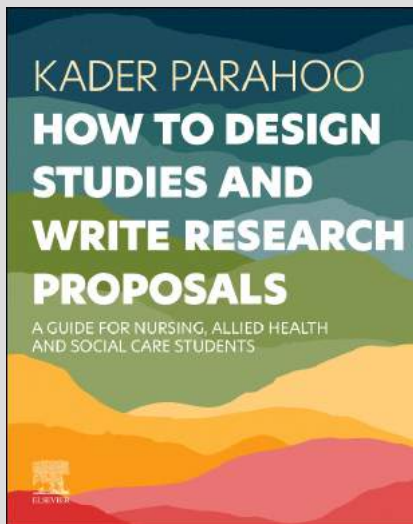


Nursing Nursing
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Also includes resources via:



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How to Design Studies and Write Research Proposals

A Guide for Nursing, Allied Health and Social Care Students

Kader Parahoo, Professor of Nursing and Health Research

ISBN: 9780443261633
PUB DATE: Apr 01, 2024
LIST PRICE: £29.99 / \$37.99 / €35.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 191 x 235
PAGES: c. 250
AUDIENCE: Undergraduates in nursing, allied health sciences and social work
BIC CODES: MQ
THEMA CLASSIFICATION: THEMAMQ

Covers the following hot topics:

- How to develop and formulate research questions
- How to select research designs and methods of data collection and analysis
- Sampling and ethical issues
- Research impact in proposals
- Patient and Public Involvement in research studies
- Planning and costing studies in research proposals
- Tips for successful proposals

KEY FEATURES

- Takes readers through all the steps of the research process from developing research questions to research impact
- Deals with quantitative, qualitative and mixed methods studies
- Provides examples of real proposals, most of which are freely accessible online
- Makes reference to research studies and research proposals from a wide range of countries
- Provides examples from the fields of nursing, allied health sciences and social work
- Provides detailed checklists of items to include in proposals, at the end of each chapter
- Provides useful references and links that readers can access to further explore issues raised in the text.
- Written in a language and style that makes research easier to understand

DESCRIPTION

If you're writing a research proposal for the first time, this is the book for you.

It's the only text on the market that guides you through the entire process, from designing a research study to submitting a successful proposal. It covers everything from formulating the research question to selecting the research methodology, collecting data, and navigating ethics, all supported with plenty of practical tips, real life examples and checklists for honing your proposal.

How to Design Studies and Write Research Proposals is written by nursing research expert Professor Kader Parahoo, whose work is loved by students for its accessible writing style and practical approach.



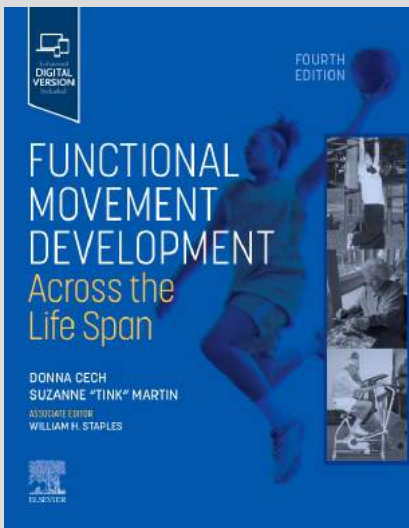
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Nursing UK Pre-Registration Edu
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:





Functional Movement Development Across the Life Span, 4e

Edited by : **Donna Joy Cech**, PT, DHS, Certified Specialist in Pediatric Physical Therapy; Professor and Program Director (Retired), Physical Therapy, Midwestern University, Downers Grove, IL and **Suzanne Tink Martin**, PT, PhD, Professor Emerita, Physical Therapy, University of Evansville, Evansville, Indiana

ISBN: 9780323877992
PREVIOUS ISBN: 9781416049784
PUB DATE: Apr 05, 2024
LIST PRICE: £57.99 / \$79.99 / €67.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 400
AUDIENCE: Physical Therapy (DPT) students 256 accredited programs; 11 developing programs 34,202 students enrolled Physical Therapy Assistant (PTA) students 374 accredited programs; 42 developing programs 12,478 students enrolled
BIC CODES: MQS, MX
THEMA CLASSIFICATION: THEMAMQS

Develop a solid understanding of functional movement across the life span

KEY FEATURES

- **More than 200 illustrations, tables, and special features** clarify developmental concepts, address clinical implications, and summarize key points relating to clinical practice.
- **A logical, easy-to-read format** includes 13 chapters organized into three units covering the definition of functional movement, movement system contribution to functional movement across the life span, and functional movement outcomes.
- **A focus on evidence-based information** covers development changes across the life span and how they impact function.

DESCRIPTION

Providing a solid foundation in the normal development of functional movement, **Functional Movement Development Across the Life Span, 4th Edition** helps you recognize and understand typical functional movement in individuals from infancy to older adulthood, providing a framework from which to identify movement disorders and effectively manage patients with abnormal motor function. Divided into three units, this edition describes 1) theoretical frameworks of development, motor control/motor learning, and health/wellness; 2) anatomical and physiological development of the body systems comprising the movement system (muscular, skeletal, cardiopulmonary, nervous, sensory, integumentary, and endocrine); and 3) life span description of the movement functions of posture, balance, locomotion, prehension, and fitness. This edition integrates themes of the movement system, life span development, and health/wellness, providing you with the most current information needed for clinical decision making and to be an effective practitioner. Written by physical therapy experts Donna J. Cech, Suzanne "Tink" Martin, and William Staples, this book provides the evidence-based information and tools needed to understand functional movement and manage patients' functional skills throughout the life span. Dr. Staples brings his expertise in geriatric physical therapy and exercise in aging, enriching content on aging throughout the book.



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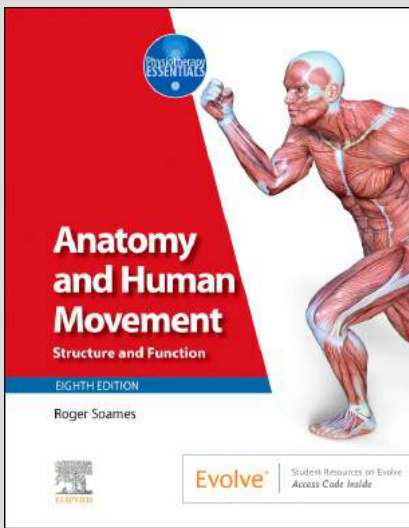


Health Professions I (HP1) Physical Therapy
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



eBooks+



Anatomy and Human Movement, 8e

Structure and Function

Roger W. Soames, BSc(Human Biology), PhD(Human Sciences), Professor Emeritus, Centre for Anatomy and Human Identification, College of Life Sciences, University of Dundee, Dundee, Scotland, UK

ISBN: 9780443113277
PREVIOUS ISBN: 9780702072260
PUB DATE: Apr 01, 2024
LIST PRICE: £53.99 / \$66.99 / €63.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 762
ILLUSTRATIONS: Approx. 536 illustrations (536 in full color)
BIC CODES: MQS
THEMA CLASSIFICATION: THEMAMQS

Best-selling textbook for students and lecturers

A Volume in the *Physiotherapy Essentials* Series

KEY FEATURES

- Self-contained modules help users study at their own pace and time
- Easy to navigate – key concepts, summary boxes and overview make it easy to retain information
- Learning objectives for each subsection to provide a framework for the student
- Self-assessment questions to support learning
- Full-colour illustrations represent anatomy in 3D
- Electronic ancillaries for flexible learning outside the classroom - a supplementary e-learning course and varied validation resources, such as outcome measures, animations, videos, quizzes, activity analyses and MCQ tests

DESCRIPTION

Since its first publication in 1989, *Anatomy and Human Movement* has become the seminal textbook for physiotherapy and occupational therapy students in both the UK and internationally.

This eighth edition has been fully updated by Professor Emeritus Roger Soames to incorporate the latest evidence and practice. It provides a clear and detailed account of musculoskeletal structure and function, with self-contained modules, multiple choice questions, illustrations and electronic ancillaries to support both learning and teaching.

The book will be invaluable for anyone needing to learn and remember how movement takes place, including students of sport and exercise sciences, orthopaedic health, chiropody and podiatry, chiropractic and osteopathy, and complementary medicine. It is also suitable for practising clinicians wishing to refresh their knowledge of functional anatomy.



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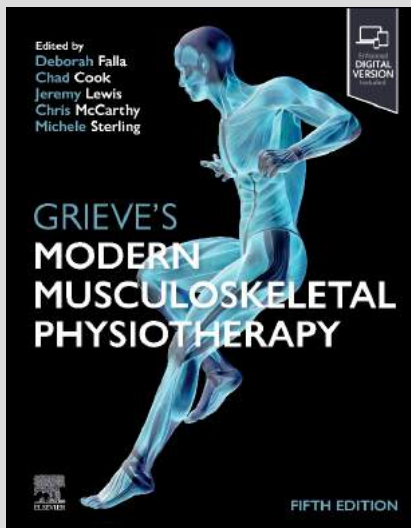


Health Professions I (HP1) UK
Physical Therapy
<https://virtuale.elsevier.com>, www.elsevier.com

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eBooks+



Grieve's Modern Musculoskeletal Physiotherapy, 5e

Edited by : **Deborah Falla**, PhD, BPhy, Professor, Chair in Rehabilitation Science and Physiotherapy, School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham, UK; **Jeremy Lewis**, BApSci (Physio), PhD, FCSP, Consultant Physiotherapist for London Shoulder Clinic, Centre for Health and Human Performance & for Central London Community Healthcare NHS Trust; University of Limerick, Ireland; School of Health and Social Work, University of Hertfordshire, UK; **Christopher McCarthy**, PhD, PGDs Biomech, Manual Therapy, Physiotherapy, FMACP, FCSP, Clinical Fellow, Manchester School of Physiotherapy, Manchester Metropolitan University, Manchester, UK; **Chad E Cook**, PhD, PT, FAAOMPT, Program Director, Professor, Doctor of Physical Therapy Division, School of Medicine, Duke University, Durham, NC, USA; **Michele Sterling**, PhD, MPhy, BPhy, Grad Dip Manip Physio, FACP, Chief Investigator, CCRE Spine; Associate Professor, School of Medicine and School of Health and Rehabilitation Sciences

ISBN: 9780702080890

PREVIOUS ISBN: 9780702051524

PUB DATE: Jul 01, 2024

LIST PRICE: £112.99 / \$149.99 / €141.99

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 8.50w x 10.875h

PAGES: c. 600

BIC CODES: MMS, MXH, MQV, MX, MQS

THEMA CLASSIFICATION:
THEMAMQS

Brand new edition of the manual therapist's bible

KEY FEATURES

- Edited by an internationally recognised editorial board – brings expertise in both research and clinical practice
- Fully updated with the latest published evidence
- Clear guidance on evidence-based contemporary practice
- Management of conditions relating to both the vertebral column and peripheral joints
- Updated reviews on the science and practice of a wide range of treatment modalities
- Principles of effective communication, screening, clinical reasoning, lifestyle considerations, behavioural change and self-management
- Summary boxes and clinical tips to support clinical assessment and management
- More than 300 figures and illustrations

DESCRIPTION

Originally edited by Gregory Grieve, a founder of modern manual therapy, the fifth edition of *Grieve's Modern Musculoskeletal Physiotherapy* continues to offer contemporary evidence, models of diagnosis and practice that make this one of the most highly respected reference books for physiotherapists.

This edition has been fully updated to provide an overview of the latest science in a rapidly evolving field. It includes detailed directions for research-informed patient care for a range of musculoskeletal disorders, as well as up-to-date information on the global burden, research methodologies, measurements, and principles of assessment and management.

A new international editorial board, with experience in both research and clinical practice, bring a truly comprehensive perspective to this book, meaning those practising musculoskeletal physiotherapy today will find it highly clinically relevant to their work.



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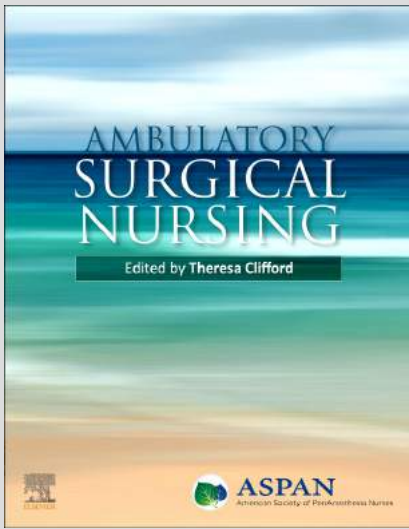
Health Professions I (HP1) UK
Physical Therapy

<https://virtuale.elsevier.com>, www.elsevier.com

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Ambulatory Surgical Nursing

ASPAN

ISBN: 9780323681445
PUB DATE: Apr 01, 2024
LIST PRICE: £76.99 / \$94.99 / €89.99
DISCOUNT: Textbook
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 600
BIC CODES: MQCL6
THEMA CLASSIFICATION:
THEMAMQCL6

Gain the multidisciplinary clinical knowledge and skills you need to provide effective nursing care in outpatient settings

KEY FEATURES

- **The latest information on care coordination for patients** helps enhance the patient experience.
- **Evidence-based practice boxes** throughout provide research-based content to reinforce learning.
- **Case studies with questions at the end of each chapter** provide real-world scenarios and offer an opportunity to apply information presented in the chapter.
- **Coverage of exclusion criteria for outpatient surgery** supports optimal patient outcomes.
- **Full-color illustrations** visually enhance and reinforce students' understanding of key concepts.
- **Chapters contributed by more than 20 experts** in perioperative nursing and ambulatory nursing practice ensure the quality and relevance of the material.

DESCRIPTION

Learn the multidisciplinary clinical knowledge and skills needed to provide effective nursing care in outpatient settings! **Ambulatory Surgical Nursing** reflects the advanced procedures being performed in ambulatory surgery today, as well as the latest medications and improvements in pain management techniques. Authored by the American Society of PeriAnesthesia Nurses (ASPAN) and edited by well-known perioperative nursing expert Theresa L. Clifford, this text addresses all aspects of patient care, from pre-admission to patient education, discharge, and recovery, with comprehensive coverage of surgical specialties in separate chapters for easy reference. Case studies in each chapter bring key concepts to life and offer an opportunity to apply information contained within the chapter.



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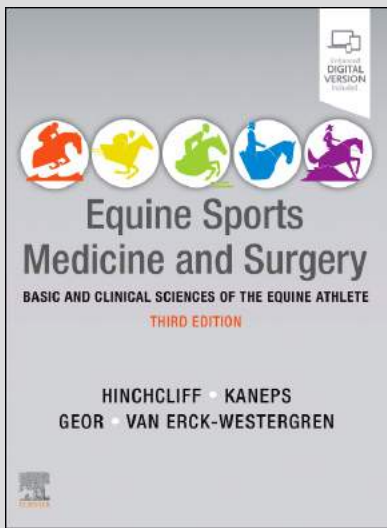
Nursing Nursing

<https://virtuale.elsevier.com>, www.elsevier.com

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Equine Sports Medicine and Surgery, 3e

Basic and clinical sciences of the equine athlete

Kenneth W Hinchcliff, BVSc, MS, PhD, DACVIM (Large Animal), Dean Emeritus Veterinary Clinical Centre Faculty of Veterinary and Agricultural Sciences The University of Melbourne; **Andris J. Kaneps**, DVM, MS, PhD, Diplomate ACVS, DACVSMR, Owner, Kaneps Equine Sports Medicine and Surgery, Beverly, MA, USA; **Raymond J. Geor**, Geor BVSc MVSc PhD Diplomate, Professor and Chairperson, Department of Large Animal Clinical Sciences, College of Veterinary Medicine, Michigan State University, East Lansing, MI, USA and **Emmanuelle Van Erck-Westergren**, DVM PhD DECEIM, Equine Sports Medicine Practice, Waterloo, Belgium

ISBN: 9780702083709

PREVIOUS ISBN: 9780702047718

PUB DATE: Apr 12, 2024

LIST PRICE: £199.99 / \$375.99 / €249.99

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 1428

ILLUSTRATIONS: 160 illustrations (100 in full color)

BIC CODES: MZDH, MZM

THEMA CLASSIFICATION:

THEMAMZDH; THEMAMZ;

THEMAMZM

The all-in-one guide to exercise physiology, disease, injury, and surgical interventions for the athletic horse

KEY FEATURES

- **Comprehensive coverage** is based on sound research and evidence-based practice, and provides an understanding of the physiologic processes underlying the responses of horses to exercise and physical conditioning, from musculoskeletal and respiratory disorders to nutrition and physical rehabilitation.
- **International perspective on equine athletics** includes guidelines pertinent to different geographic areas and racing jurisdictions.
- **Complementary and alternative therapies** are explored, as well as physical therapy and chiropractic therapy for athletic horses.
- **Coverage of abnormalities of the upper airway** is now divided into two chapters: *Disease of the Nasopharynx* and *Diseases of the Larynx and Trachea*.
- **Coverage of diseases of the heart** is divided into two chapters: *Arrhythmias in Equine Athletes* and *Structural Heart Disease of Equine Athletes*.
- **Nearly 900 drawings and clinical photos** depict equine anatomy, testing, and treatment scenarios.
- **High-quality artwork** includes new radiographic, ultrasonographic, CAT scan, and MRI images to aid understanding and diagnosis.
- **Expert Consult website** includes a fully searchable version of the entire text with each new print purchase.

DESCRIPTION

Get evidence-based guidelines to keeping athletic horses healthy and physically fit! **Equine Sports Medicine & Surgery, 3rd Edition** provides a comprehensive guide to exercise physiology and training within a clinical context, along with a detailed review of all diseases affecting horses used in racing and competition. Not only does this text discuss the physiological responses of each body system to exercise, but it covers nutritional support, the prevention of exercise-induced disorders and lameness, and modification of training regimens. New to this edition are topics such as drug effects on performance and the use of cloud-based technologies for monitoring performance. Written by an expert team of international authors led by Dr. Kenneth W. Hinchcliff, **this authoritative, all-in-one resource is also available as an eBook on Expert Consult** with each new print purchase.



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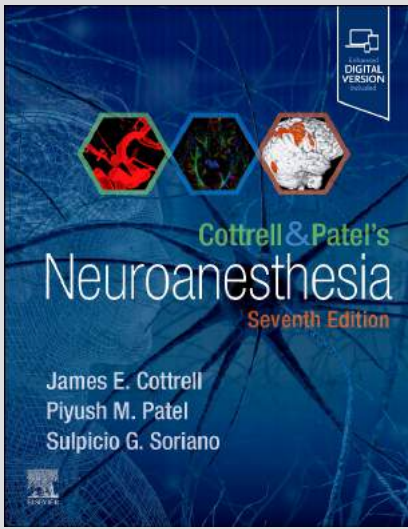
Health Professions I (HP1)
Veterinary Medicine

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Cottrell and Patel's Neuroanesthesia, 7e

Edited by : **James E. Cottrell**, MD, FRCA, Dean for Clinical Practice, Distinguished Service Professor, Chair, Department of Anesthesiology, State University of New York Downstate Medical Center, New York, USA and **Piyush Patel**, MD, Professor, Department of Anesthesiology, University of California, VA Medical Center, San Diego, California, USA

ISBN: 9780323932738
PREVIOUS ISBN: 9780323359443
PUB DATE: Apr 09, 2024
LIST PRICE: £208.99 / \$257.99 / €243.99
DISCOUNT: Reference
FORMAT: Hardback
TRIM: 8.50w x 10.875h
PAGES: c. 500
AUDIENCE: Anesthesiologists; specialist neuroanesthesiologists
BIC CODES: MMB
THEMA CLASSIFICATION: THEMAMKA

The definitive reference in the complex field of neuroanesthesia

KEY FEATURES

- Integrates current scientific principles with the newest clinical applications, including current **clinical management guidelines** for neurosurgical patients.
- Provides expert guidance on **what to do under a variety of circumstances**, the logic behind why it should be done, and tips for **avoiding complications**.
- Includes **clear, conceptual illustrations throughout**, along with neuroimaging, clinical photos, charts and graphs, and clinical algorithms, making complex concepts easier to understand at a glance.
- Covers the **latest advancements in the field** including cerebrospinal fluid hemodynamics and physiology, minimally invasive techniques, brain tissue oxygenation oximetry, microdialysis, neuroimaging and neurointerventional radiology, traumatic brain injury, pediatric neuroanesthesia, and acute treatment of depression.
- **An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Any additional digital ancillary content may publish up to 6 weeks following the publication date.

DESCRIPTION

Balancing **must-know scientific knowledge with clinical applications**, *Cottrell and Patel's Neuroanesthesia, 7th Edition*, reflects the **latest developments in neurosurgical anesthesia**, providing a comprehensive, authoritative overview of this challenging field. Clinically oriented chapters offer **key clinical points, case presentations, and discussions**, delivering the complete and authoritative guidance you need to ensure optimal perioperative care and safety for neurosurgical patients. **Broad, clearly organized coverage** of all important aspects of neuroanesthesia enables you to find reliable answers to any clinical question.



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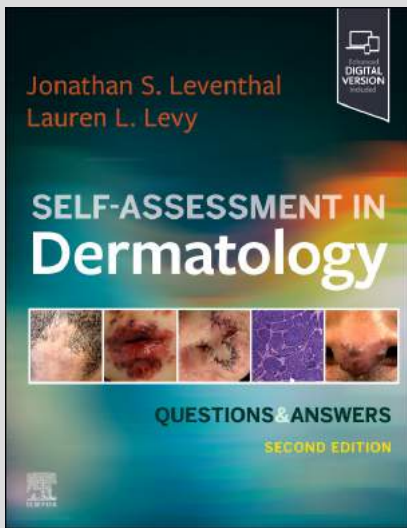


Speciality Medicine Anesthesiology
<https://virtuale.elsevier.com>, www.elsevier.com

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Self-Assessment in Dermatology, 2e

Questions and Answers

Edited by : **Jonathan S. Leventhal**, MD, Assistant Professor of Dermatology; Department of Dermatology; Director of Onco-Dermatology Clinic, Yale New Haven Hospital (YNHH), Yale Branford Dermatology, Yale Dermatology Associates and **Lauren Levy**, MD, Dermatologist, Private Practice, Clinical Instructor, Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York City, NY, USA

ISBN: 9780443114779
PREVIOUS ISBN: 9780323662000
PUB DATE: Jun 03, 2024
LIST PRICE: £80.99 / \$99.99 / €92.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 0
BIC CODES: MJK
THEMA CLASSIFICATION:
THEMAMJK

Prepare for success on your dermatology exams

KEY FEATURES

- Tests your knowledge with **640 questions and answers**, both in print and interactively online.
- Contains **fully revised content throughout**, with new information on current FDA-approved drugs, biologics and other therapeutic advances, and more.
- Covers general dermatology and visual recognition, pediatric dermatology, dermatopathology, procedural dermatology, and basic science—all topics covered on the ABD applied exam.
- Provides **focused explanations** for both correct and incorrect answers, and contains numerous **clinical and dermatopathology images**.
- Corresponds to the blueprint of the ABD primary certification exam.
- Includes **single best answer questions, case vignettes, and follow-up questions**; each question links to a chapter in Bologna's *Dermatology* for further reading.
- **An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Additional digital ancillary content may publish up to 6 weeks following the publication date.

DESCRIPTION

Test your dermatology knowledge and prepare to ace your exams with *Self-Assessment in Dermatology: Questions and Answers, 2nd Edition*. Featuring **more than 600 questions** that follow the American Board of Dermatology exam blueprint, this convenient study tool provides **authoritative, up-to-date information** on every aspect of the field. **Eight practice tests** have been carefully tailored for effective exam review by Yale authors who have had recent experience and success with the exam.



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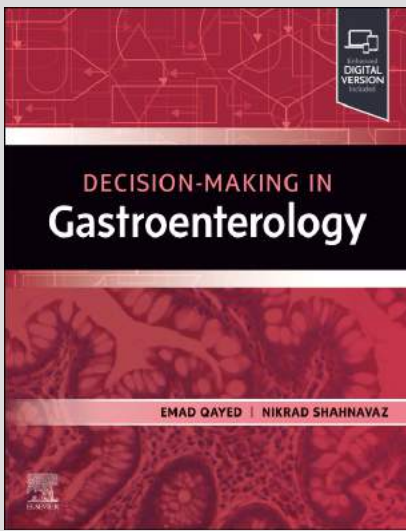


Speciality Medicine Dermatology
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



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Decision Making in Gastroenterology

Edited by : **Emad Qayed**, MD, MPH, Associate Professor of Medicine, Department of Medicine, Division of Digestive Diseases, Emory University School of Medicine, Atlanta, GA and **Nikrad Shahnava**, MD, Associate Professor of Medicine, Division of Digestive Diseases, Grady Memorial Hospital, Emory University School of Medicine

ISBN: 9780323932462
PUB DATE: Feb 05, 2024
LIST PRICE: £84.99 / \$104.99 / €99.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 300
AUDIENCE: Practicing GI/Liver specialists, Fellows, residents rotating through GI
BIC CODES: MJH
THEMA CLASSIFICATION: THEMAMJH

Take an easy-to-follow, algorithmic approach to commonly encountered GI disorders

A Volume in the *Decision Making Series*

KEY FEATURES

- Contains 80 algorithms covering commonly encountered symptoms and signs, specific gastrointestinal conditions, esophageal disorders, liver conditions, pancreatic diseases, and colorectal conditions.
- Outlines the key decision points in patient management, providing a wealth of systematic information that ensures you take into account the proper physical signs and test results that will guide your recommendations.
- Presents an algorithm on one page and instructional text for key nodes within the algorithm on the facing page.
- Offers a first-line approach to patients with common signs and symptoms in Section 1; Section 2 includes algorithms for the most commonly treated GI disorders.
- Provides step-by-step decision-making guidance for diagnosis and management of esophageal motility disorders, achalasia, foreign body ingestion, hepatic encephalopathy, celiac disease, irritable bowel syndrome, hepatocellular carcinoma, colonic ischemia, acute pancreatitis, primary biliary cholangitis, biologic therapy in inflammatory bowel disease, immune checkpoint inhibitor colitis, and much more.
- An eBook version is included with purchase. The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Additional digital ancillary content may publish up to 6 weeks following the publication date.

DESCRIPTION

Think systematically and follow a logical sequence throughout the steps of diagnostic decisions with *Decision-Making in Gastroenterology*. This valuable resource is perfect for gastroenterologists and trainees, as well as ER physicians, internists, family medicine physicians, and other specialists who need to make informed decisions about their patients' care on a day-to-day basis. Practical and easy to use, it's filled with diagnostic and treatment algorithms that provide easy-to-follow guidance when encountering patients whose clinical presentation is unfamiliar or complex, or whose treatment path is not completely certain. Each point-of-care algorithm represents a common GI or liver disorder or disease, and offers a concise visual representation that clearly guides you through the steps of efficient and effective decision making.



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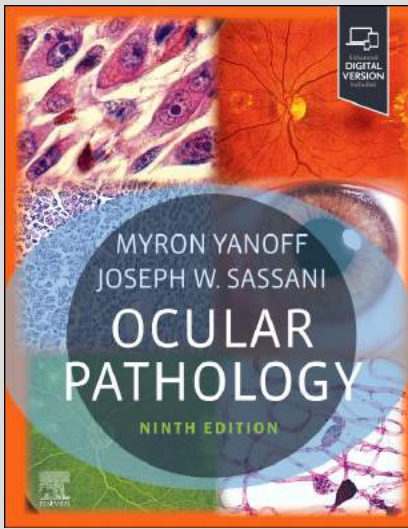


Speciality Medicine Gastro
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



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Ocular Pathology, 9e

Myron Yanoff, MD, Professor and Chair, Department of Ophthalmology, Drexel University College of Medicine; Adjunct Professor of Ophthalmology, University of Pennsylvania, Philadelphia, Pennsylvania and **Joseph W. Sassani**, MD, MHA, Professor of Ophthalmology and Pathology Chief of the VA Hospital, Department of Ophthalmology, Penn State Milton S. Hershey Medical Center, Pennsylvania State University, Hershey, Pennsylvania

ISBN: 9780323878227

PREVIOUS ISBN: 9780323547550

PUB DATE: Apr 01, 2024

LIST PRICE: £296.99 / \$367.99 / €347.99

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 8.50w x 10.875h

PAGES: c. 874

AUDIENCE: Ophthalmic pathologists; ophthalmologists

BIC CODES: MJQ

THEMA CLASSIFICATION:

THEMAMJQ

Bridge the gap between ophthalmology and pathology with this authoritative resource

KEY FEATURES

- Features **more than 1,900 high-quality clinical photographs, illustrations, and histological micrographs** from the collections of internationally renowned leaders in ocular pathology.
- Presents information in a **quick-reference outline** format – ideal for today's busy physician.
- Includes **clinico-pathological correlations** throughout, with side-by-side image comparisons further highlighted with clinical pearl boxes.
- Covers **the latest imaging techniques**, including optical coherence tomography (OCT), anterior segment OCT (AS-OCT) and OCT-angiography (OCT-A).
- Provides **new coverage** on evolving areas such as genetics and molecular biology, SARS-COV 2 virus (COVID-19), multiple endocrine neoplasia, iris racemose hemangioma, white dot syndromes, idiopathic polypoidal choroidal vasculopathy, and more.
- **An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Additional digital ancillary content may publish up to 6 weeks following the publication date.

DESCRIPTION

For nearly 50 years, *Ocular Pathology* has been the choice of both ophthalmologists and pathologists for **unsurpassed visual guidance and training in ophthalmic pathology**. Expertly edited by Drs. Myron Yanoff and Joseph W. Sassani, this thoroughly revised 9th Edition provides **comprehensive, easy-to-understand coverage** of the eye's response to disease and treatment, keeping you up to date with every aspect of the field. From current imaging techniques to genetics and molecular biology to clinical pearls, *Ocular Pathology* provides the concise yet complete information you need.



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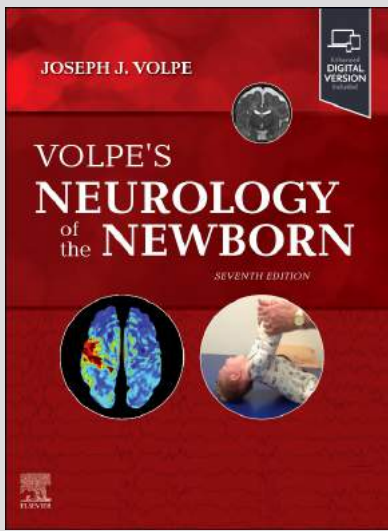
Speciality Medicine Ophthalmology
Surgery

<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:



eBooks+



Volpe's Neurology of the Newborn, 7e

Edited by : **Joseph J. Volpe**, MD, Bronson Crothers Professor of Neurology, Emeritus, Harvard Medical School, Neurologist-in-Chief, Emeritus, Boston Children's Hospital, Department of Pediatric Newborn Medicine, Harvard Institutes of Medicine, Boston, Massachusetts and **Terrie E. Inder**, MB, ChB, MD, Mary Ellen Avery Professor of Pediatrics, Harvard Medical School, Chair, Department of Pediatric, Newborn Medicine, Brigham and Women's Hospital, Boston, Massachusetts

ISBN: 9780443105135
PREVIOUS ISBN: 9780323428767
PUB DATE: Apr 11, 2024
LIST PRICE: £169.99 / \$209.99 / €194.99
DISCOUNT: Reference
FORMAT: Hardback
TRIM: 8.50w x 10.875h
PAGES: c. 1220
AUDIENCE: Neonatologists,
Pediatric Neurologists,
Neonatal/pediatric nurse practitioners
BIC CODES: MJW
THEMA CLASSIFICATION:
THEMAMKD

Unparalleled coverage of neonatal neurology from the leading reference in the field

KEY FEATURES

- Provides **clear, comprehensive coverage** of neonatal neurology in Dr. Joseph Volpe's own legendary, readable manner—for a masterful, cohesive source of answers to any question that arises in your practice.
- Brings the latest science into the clinical setting, with an emphasis on **translating new knowledge to the infant's bedside**.
- Offers **comprehensive updates with summary tables and text** to reflect major advances in the study of hemorrhage; new insights into molecular genetics and molecular characterization of brain tumors; significant advances in drugs and the developing nervous system; and much more.
- Includes **new chapters** on fetal neurology which address the importance of understanding and investigating the maternal-fetal origins of neonatal disease, as well as new chapters on neurodevelopmental follow-up, inflammation, and neurology in low-resource settings.
- Contains **more than 1,000 illustrations:** clinical and pathological specimens, key experimental findings, schematics, algorithms, anatomical drawings, and neuroimaging throughout, as well as numerous tables and boxes that synthesize key points.
- **An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Any additional digital ancillary content may publish up to 6 weeks following the publication date.

DESCRIPTION

Stay up to date with today's **latest advances in diagnosis and management**, as well as the many **scientific and technological advances** that are revolutionizing neonatal neurology, with the definitive text in the field. *Volpe's Neurology of the Newborn, 7th Edition*, shares the knowledge and expertise of world authority Dr. Joseph Volpe, who, along with Dr. Terrie E. Inder of Children's Hospital of Orange County and other distinguished editors, brings a wealth of insight to this classic text. Known for its **clear, engaging writing style, vibrant, full-color illustrations, and authoritative information** throughout, this reference is an indispensable resource for those who provide care for neonates with neurological conditions.



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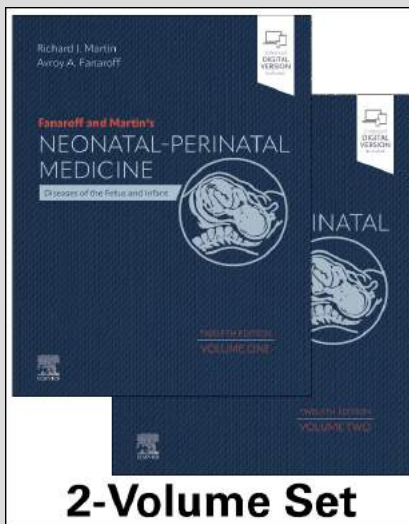
Speciality Medicine Peds

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Fanaroff and Martin's Neonatal-Perinatal Medicine, 2-Volume Set, 12e

Diseases of the Fetus and Infant

Edited by : **Richard J. Martin**, MD, Director, Neonatal Research Programs, UH Cleveland Medical Center, Professor, Pediatrics, CWRU School of Medicine, Rainbow Babies and Children's Hospital, Cleveland, OH; **Avroy A. Fanaroff**, MD, FRCPE, FRCPC, Emeritus Professor, Pediatrics and Reproductive Biology, Case Western Reserve University School of Medicine and Emeritus Eliza Henry Barnes Chair in Neonatology, Rainbow Babies and Children's Hospital, Cleveland, Ohio

ISBN: 9780323932660

PREVIOUS ISBN: 9780323567114

PUB DATE: Apr 03, 2024

LIST PRICE: £229.99 / \$293.99 /

€257.99

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 8.50w x 10.875h

PAGES: c. 2200

AUDIENCE: Neonatologists, Pediatricians, residents, fellows

BIC CODES: MJW

THEMA CLASSIFICATION:

THEMAMKDN; THEMAMKCM

Expert, multidisciplinary guidance from the gold standard reference in the field

KEY FEATURES

- Provides **up-to-date, evidence-based content** throughout, including state-of-the-art coverage of personalized medicine and genetics.
- Contains **new chapters** on Big Data for the Smallest Patients: What we can learn from neonatal database research; Role of Umbilical Cord Management in Neonatal Resuscitation; Care of Periviable Micropremies: the Japanese perspective; Longer Term Respiratory Outcomes of Prematurity; and Perinatal Palliative Care.
- Features **extensive updates throughout**, including blood and the hematopoietic system; social and economic contributors to neonatal outcome; fetal growth restriction; diagnostic imaging of the neonate; anesthesia in the neonate; postnatal bacterial infections; neonatal management of congenital heart disease; and retinopathy of prematurity.
- Includes **over 600 detailed, full-color illustrations** that depict disorders in the clinical setting and explain complex information.
- Provides **indexing in both volumes** that provides quick access to specific guidance.
- Offers a **global perspective** with an expanded number of international contributors.
- An ideal resource for clinical practice as well as recommended reading for **neonatology board review** or maintenance of certification.
- **An eBook version is included with purchase.** The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Additional digital ancillary content may publish up to 6 weeks following the publication date.

DESCRIPTION

A must-have reference for both general physicians and advanced practice providers, *Fanaroff and Martin's Neonatal-Perinatal Medicine: Diseases of the Fetus and Infant* provides **trusted, time-tested guidance** on the **management and evidence-based treatment** of problems in the mother, fetus, and neonate. The fully revised 12th Edition is an ideal resource for every stage of practice and remains **the most comprehensive, multidisciplinary text in the field**. Drs. Richard J. Martin and Avroy A. Fanaroff from Rainbow Babies and Children's Hospital bring you up to date with everything from diagnosis and treatment selection through post-treatment strategies and management of complications—all with a dual focus on neonatology and perinatology, and all designed to help you improve the quality of life and long-term outcomes of your patients.



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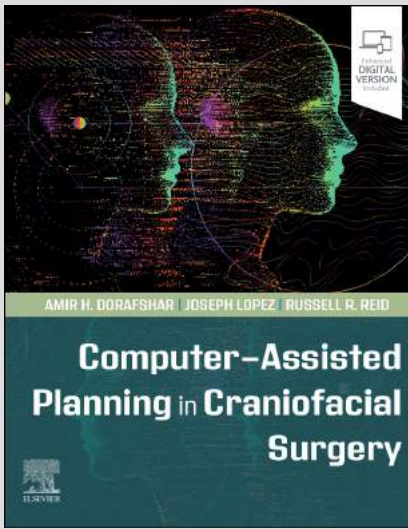
Speciality Medicine Peds

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Computer-Assisted Planning in Craniofacial Surgery

Amir H Dorafshar, MBChB, FACS, FAAP, The John W. Curtain, MD, Chair of Plastic and Reconstructive Surgery, Professor of Surgery and Neurological Surgery, Rush University Medical Center, Chicago, Illinois; **Joseph Lopez**, MD and **Russell R. Reid**, MD, PhD, Bernard G. Sarnat Professor of Surgery and Craniofacial Research, Director of Cleft and Craniofacial Services, Residency Program Director, Section of Plastic Surgery, The University of Chicago Medicine & Biological Science, Chicago, Illinois

ISBN: 9780323826686
PUB DATE: Feb 08, 2024
LIST PRICE: £118.99 / \$146.99 / €138.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 7.25w x 10.25h
PAGES: c. 224
AUDIENCE: Plastic and Reconstructive Surgery; Craniofacial Surgery
BIC CODES: MJP
THEMA CLASSIFICATION: THEMAMNP

A first-of-its-kind, comprehensive reference for the entire field of craniofacial surgery

KEY FEATURES

- Follows a standard format in each chapter: history of the topic, current literature and applications, key steps and techniques of virtual planning and navigation (with video), and pearls/pitfalls shared by a master surgeon with expertise in each particular area.
- Includes preoperative photographs and postoperative results, radiological and computerized imaging, and clinical photos throughout.
- Covers potential complications to be aware of in the postoperative period.
- Offers expert perspectives on computer-assisted planning from surgeons, physicists, engineers, and other industry leaders.
- An eBook version is included with purchase. The eBook allows you to access all of the text, figures and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Additional digital ancillary content may publish up to 6 weeks following the publication date.

DESCRIPTION

Recent advances in both scanning instruments and supporting software have made intraoperative 3D imaging a reality in today's plastic and reconstructive surgery. Computer-Assisted Planning in Craniofacial Surgery provides authoritative, state-of-the-art information on when and how to apply technologies such as virtual planning, stereolithography, and navigation in the practice of craniofacial surgery. This unique, clinically focused title discusses the history and evolution of current techniques, extensively covers the application of current technologies, and includes multidisciplinary perspectives throughout, providing a comprehensive, holistic view of this important topic.



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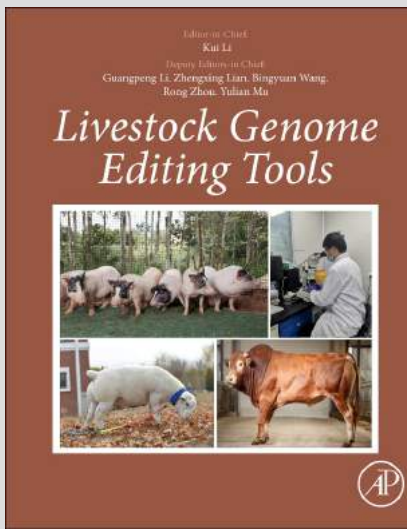


Speciality Medicine Plastic Surgery
<https://virtuale.elsevier.com>, www.elsevier.com

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Livestock Genome Editing Tools

Edited by : **Kui Li**, Dr. Kui Li is a professor at the Chinese Academy of Sciences. and **Bingyuan Wang**, Research Associate, Institute of Animal Science, Chinese Academy of Agricultural Sciences, Beijing, P.R. China

ISBN: 9780128190999
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 7.50w x 9.25h

PAGES: c. 404

ILLUSTRATIONS: 137 illustrations
(67 in full color)

AUDIENCE: Researchers and practitioners in agricultural and livestock studies, Advanced undergraduate and graduate students in animal reproduction and biological engineering

BIC CODES: TVHB, TVH, PSV, KNAC

THEMA CLASSIFICATION:

THEMATVH; THEMPSV;

THEMAKNA

Provides the latest and most effective tools for enhanced genome editing of cattle, sheep, and pigs

KEY FEATURES

- Provides operable experimental procedures of pigs, cattle, and sheep genome editing tools
- Details the evaluation, breeding process, and application of each of the latest and most effective tools
- Examines the importance of livestock germplasm innovation, breed improvement, and human disease model generation

DESCRIPTION

Livestock Genome Editing Tools introduces applications and improvements to a series of new genome editing techniques in livestock, including pigs, cattle, and sheep. These tools include zinc finger nucleases (ZFN), transcription activator-like effector nucleases (TALEN), and the clustered regularly interspaced short palindromic repeats (CRISPR/Cas9) system, as well as the traditional gene targeting tools. The book also summarizes a series of genome editing-related techniques including microinjection and somatic cell nuclear transfer. Written by international experts who have been working on livestock genetic editing field for over 30 years, this book provides extensively theoretical and practical experience for readers to master the latest developments.

The writing of operation details makes this book an accessible read. It is an important resource for researchers interested in genome-edited animals, scientists and technicians in breeding institutions, and is also of interest to students major in animal reproduction and biological engineering.



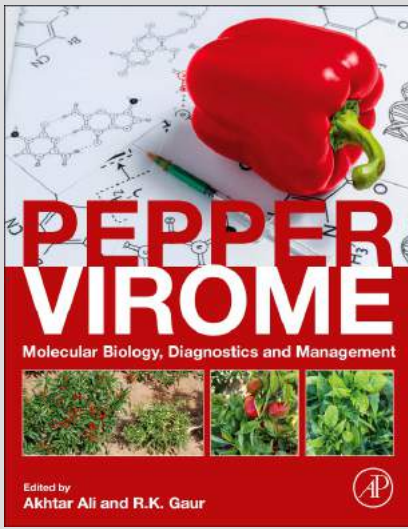
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FOOD SCIENCE, TECHNOLOGY & NUTRITION

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Pepper Virome

Molecular Biology, Diagnostics and Management

Edited by : **Akhtar Ali**, Professor of Plant Virology Department of Biological Science The University of Tulsa, and **R.K. Gaur**, Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh, India

ISBN: 9780443155765
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 403

AUDIENCE: Researchers at commercial and academic institutions, academics and advanced students in pepper Plant pathologists, breeders, extension specialists and horticulturalists producing pepper

BIC CODES: TVK, TVS, KNAC

THEMA CLASSIFICATION:

THEMATVK; THEMAMPST;

THEMATVS; THEMAKNA

A review of viruses infecting *Capsicum* spp., their symptoms, mode of transmission, and management options

KEY FEATURES

- Focuses on symptomatology, transmission, and epidemiology of pepper viruses
- Reveals the impact on host, yield, and virus-vector interactions
- Evaluates management strategies against viruses and how they have evolved

DESCRIPTION

Pepper Virome: Molecular Biology, Diagnostics and Management presents detailed information about the plant viruses that infect pepper worldwide, providing crucial insights for both the scientific community and producers. Understanding the nature of the viruses, their transmission methods, and possible sources of resistance in order to minimize the yield losses as well as to reduce the spread of these viruses to new locations or countries is of global importance. Pepper is an important commodity worldwide, cultivated for both fresh produce and for processing industry as a spice. However, various diseases affect pepper production and cause significant yield losses in pepper yield.

The increasing outbreaks of virus species infecting *Capsicum* spp. have become a major problem for growers. A combination of factors, including expansion and intensification of pepper cultivation, availability of volunteer hosts, abundance of insect vectors, and climate change have all contributed to the issue. This book provides in-depth information on both the viruses infecting peppers and eco-friendly management measures to decrease the rate of spread of viruses.



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FOOD SCIENCE, TECHNOLOGY & NUTRITION

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COVER IMAGE
FORTHCOMING

Practical Petrophysics, Vol 62, 2e

Martin Kennedy, University of Otago, Christchurch, Christchurch, New Zealand

ISBN: 9780443223037

PREVIOUS ISBN: 9780444632708

PUB DATE: Apr 01, 2024

LIST PRICE: £129.00 / \$160.00 /
€150.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 428

AUDIENCE: Sub-surface professionals, but it is particularly suitable for end users of petrophysical interpretations (e.g., Petroleum Geologists, Reservoir Engineers, Static Model builders). Recommended reading in geoscience and petroleum engineering classes.

BIC CODES: TGM

THEMA CLASSIFICATION:
THEMATGM

Covers all aspects of practical petrophysics including the tools and techniques in building petrophysical models

A Volume in the *Developments in Petroleum Science Series*

KEY FEATURES

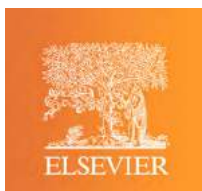
- Includes a new chapter on underground storage of carbon dioxide and other net zero applications
- Covers new information on digital core analysis and density-neutron methods
- Includes a new chapter on fractured reservoirs, including models, evaluation, and geomechanics

DESCRIPTION

Practical Petrophysics, Second Edition, Volume 62 provides a comprehensive overview of building a petrophysical model. All aspects from the principles of data acquisition through analysis to reporting are covered. This is not intended to be a review of specific tools and measurements, nor is it simply a recipe book. The book aims to teach the fundamental principles that underlie the commonly used tools and techniques but also to encourage pragmatism and avoid reading too much into what is always imperfect data.



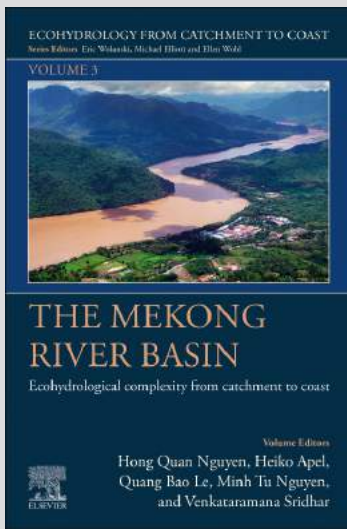
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The Mekong River Basin

Ecohydrological Complexity from Catchment to Coast

Edited by : **Hong Quan Nguyen**, Associate Professor, Vietnam National University – Ho Chi Minh City (VNU-HCM), Vietnam; **Heiko Apel**, Senior Scientist, Hydrology of the GFZ German Research Centre for Geoscience in Potsdam, the national public research centre for Geosciences, Germany; **Quang Bao Le**, Senior Scientist, Agricultural Livelihood Systems and Operational Integrated System Research, International Center for Agricultural Research in Dry Areas (ICARDA), Cairo, Egypt and **Venkataramana Sridhar**, Diplomate, American Academy of Water Resources Engineers, Biological Systems Engineering Department, Virginia Tech, Blacksburg, Virginia, USA

ISBN: 9780323908146
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €131.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 558
ILLUSTRATIONS: 140 illustrations (70 in full color)
AUDIENCE: Academics and water resources managers, fishery experts, aquatic scientists, social scientists, Political scientists and economists, river managers and scientists, undergraduate and graduate students in environmental and aquatic sciences
BIC CODES: RNC
THEMA CLASSIFICATION: THEMPSAF

An integrated and holistic accounting of the Mekong river system and its challenges surrounding climate change

A Volume in the *Ecohydrology from Catchment to Coast* Series

KEY FEATURES

- Presents an extensive collection of eco-hydrological changes in the river basin driven by both nature and anthropological factors
- Provides state of the art modeling, data analysis methodologies for complex socio-ecological complexity applied in the Mekong river basin
- Includes specific cases of ecohydrology in the river basin, especially from the Mekong delta

DESCRIPTION

The Mekong River Basin: Ecohydrological Complexity from Catchment to Coast, Volume Three presents real facts, data and predictions for quantifying human-induced changes throughout the Mekong watershed, including its estuaries and coasts, and proposes solutions to decrease or mitigate the negative effect and enable sustainable development. This is the first work to link socio-ecological interaction study over the whole Mekong River basin through the lens of ecohydrology. Each chapter is written by a leading expert, with coverage on climate change, groundwater, land use, flooding drought, biodiversity and anthropological issues.

Human activities are enormous in the whole watershed and are still increasing throughout the catchment, with severe negative impacts on natural resources are emerging. Among these activities, hydropower dams, especially a series of 11 dams in China, are the most critical as they generate massive changes throughout the system, including in the delta and to the livelihoods of millions of people and they threaten sustainability.



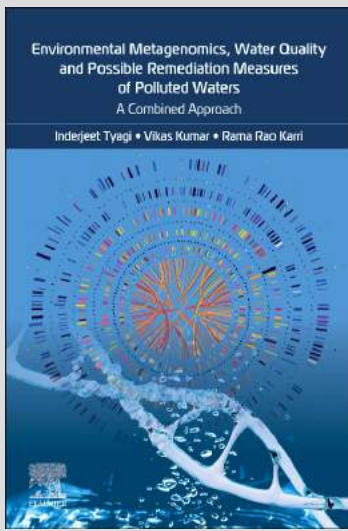
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EARTH & ENVIRONMENT

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Environmental Metagenomics, Water Quality and Suggested Remediation Measures of Polluted Waters: A Combined Approach

Inderjeet Tyagi, Scientist, ZSI, Ministry of Environment Forest and Climate Change, Kolkata, India; **Vikas Kumar**, ZSI, Zoological Survey of India, Centre for DNA Taxonomy, Kolkata, India and **Rama Rao Karri**, Professor, Faculty of Engineering, University of Technology of Brunei, India

ISBN: 9780443136597
PUB DATE: Apr 01, 2024
LIST PRICE: £134.00 / \$175.00 / €155.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 335

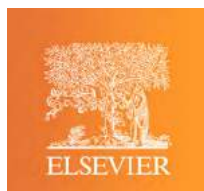
AUDIENCE: Graduate, Postgraduate and PhD students and academics in Environmental Sciences (and Life Sciences – Applied Microbiology). Researchers working in environmental sciences and e-DNA. Researchers working on surveillance of pathogen; sustainable anti-bacterial materials for possible remediation; bacterial and pathogenic diversity sensing. Researchers from industries that implement professional policies in respect to water, quality, remediation, and e-DNA. Researchers working in wastewater purification. Policymakers working in sustainable development goals. Scientists, engineers and professionals related to environmental sciences

BIC CODES: KCN, RN

THEMA CLASSIFICATION:
THEMAKCVG; THEMATQ



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Includes the latest information on environmental metagenomics of polluted areas, associated water quality, and possible remediation methods

KEY FEATURES

- Includes a range of applications and case studies in wetland, riverine, drinking, and groundwater metagenomics, along with approaches for the remediation of pollutants from wastewater
- Offers the latest updates on environmental metagenomics and its correlation with water environments, remediation measures, and SDGs
- Provides key contributions from global researchers in the fields of water chemistry, environmental science, engineering, and public health

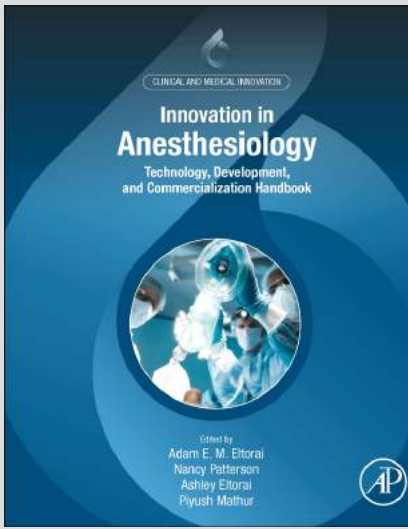
DESCRIPTION

Environmental Metagenomics, Water Quality and Suggested Remediation Measures of Polluted Waters: A Combined Approach is a reference handbook for scientists, engineers and early-career researchers seeking guidance in the areas of water quality and remediation studies. The comprehensive book, which includes case studies and applications from a range of contributors in the field, offers an essential resource in the science of water quality assessment.

EARTH & ENVIRONMENT

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Innovation in Anesthesiology

Technology, Development, and Commercialization Handbook

Ashley Eltorai, Staff Physician, Anesthesiology and Critical Care, Yale-New Haven Hospital; Assistant Professor, School of Medicine, Yale University, Connecticut, USA; **Piyush Mathur**, Program Director, Anesthesia Critical Care Fellowship Program, Anesthesia Institute, The Cleveland Clinic, Ohio, USA and **Adam E.M. Eltorai**, Brown University Warren Alpert Medical School, Marlborough, MA, USA

ISBN: 9780128183816
PUB DATE: Apr 22, 2024
LIST PRICE: £91.95 / \$120.00 / €105.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 205

AUDIENCE: Biomedical engineers, graduate students, researchers, clinicians in anesthesiology, as well as entrepreneurs and investors developing emerging technologies in anesthesiology

BIC CODES: MQW

THEMA CLASSIFICATION:

THEMATCB; THEMAMQW

A step-by-step guide to bring technological innovations in anesthesiology from concept to market

A Volume in the *Clinical and Medical Innovation Series*

KEY FEATURES

- Helps readers understand everything involved in bringing clinical and medical innovation in anesthesiology from concept to market
- Features case studies on innovative products from around the world
- Includes end-of-chapter 'Getting Started' sections to encourage readers to learn from real projects and apply important lessons to their own work

DESCRIPTION

Innovation in Anesthesiology: Technology, Development, and Commercialization Handbook reflects recent trends of industry globalization and value-conscious healthcare. Written by a team of leading anesthesiologists, engineering development professionals, business analysts, commercialization experts, regulatory and reimbursement specialists, and legal authorities, this volume in the Clinical and Medical Innovation series provides a clear process for the identification, invention, and implementation of new solutions in anesthesiology. This is the ideal resource for anesthesiology innovators who desire to deliver patient solutions and applications to their inventions. Featured case studies on innovative products highlighting the stages required are included for reference.

The book will lead researchers, clinicians, entrepreneurs, and investors through a clear process for the identification, invention, and implementation of new clinical technology solutions. Expert medical device inventor/entrepreneurs provide case studies on globally innovative products including successes, failures and practical advice. The book will be a key reference for entrepreneurs developing emerging technology in anesthesia, investors funding innovation in anesthesia, life science business leaders seeking to understand market trends in technology development, tech transfer offices determining prioritization of patenting dollars, distributors seeking to understand trends in anesthesia technology, as well as researchers and engineers seeking to understand market development needs and trends.



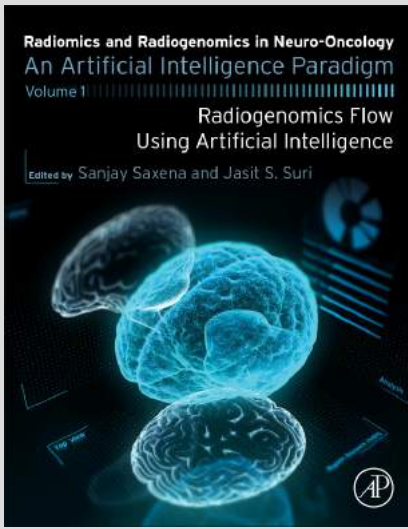
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ENGINEERING Biomedical

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Radiomics and Radiogenomics in Neuro-Oncology

An Artificial Intelligence Paradigm - Volume 1: Radiogenomics Flow Using Artificial Intelligence

Edited by : **Sanjay Saxena**, Assistant Professor, Department of Computer Science and Engineering, International Institute of Information Technology, Bhubaneswar, India and **Jasjit Suri**, PhD, MBA, FIEEE, FAMIBE, FAIUM, FSVM, FAPVS, Chairman, AtheroPoint LLC

ISBN: 9780443185083
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 578

AUDIENCE: Biomedical Engineers and researchers in Neural Engineering, medical imaging, and neural networks. Other interested audiences will be comprised of radiologists, neurologists, neurosurgeons, computer scientists, AI researchers, and designers of Machine Learning applications. Another audience includes those interested in signal processing of the brain and classifying brain signals, Clinicians and researchers interested in neurological diseases and disorders, including their diagnosis and treatment, Tumor imaging oncologists will also be a secondary audience

BIC CODES: PSAN

THEMA CLASSIFICATION: THEMAPSAN

Comprehensive look at radiomics and radiogenomics techniques for the diagnosis and predictive modeling of neuro-oncology

KEY FEATURES

- Includes coverage on the foundational concepts of the emerging fields of radiomics and radiogenomics
- Covers neural engineering modeling and AI algorithms for the imaging, diagnosis, and predictive modeling of neuro-oncology
- Presents crucial technologies and software platforms, along with advanced brain imaging techniques such as quantitative imaging using CT, PET, and MRI
- Provides in-depth technical coverage of computational modeling techniques and applied mathematics for brain tumor segmentation and radiomics features such as extraction and selection

DESCRIPTION

Radiomics and Radiogenomics in Neuro-Oncology: An Artificial Intelligence Paradigm, Volume One: Radiogenomics Flow Using Artificial Intelligence broadly encompasses the study of life-threatening brain and spinal cord malignancies, including primary lesions and those metastasizing to the central nervous system. Radiomics is an approach to medical imaging used to extract many quantitative imaging features using different data characterization algorithms, while radiogenomics, which has recently emerged as a novel mechanism in neuro-oncology research, focuses on the relationship of imaging phenotype and genetics of cancer. Sections in this book discuss several AI approaches that have been applied to conventional and advanced medical imaging data. These AI-based R-n-R tools have the potential to stratify patients into more precise initial diagnostic and therapeutic pathways and permit better dynamic treatment monitoring in this period of personalized medicine. While extremely promising, the clinical acceptance of R-n-R methods and approaches will primarily hinge on their resilience to non-standardization across imaging protocols and their capability to show reproducibility.



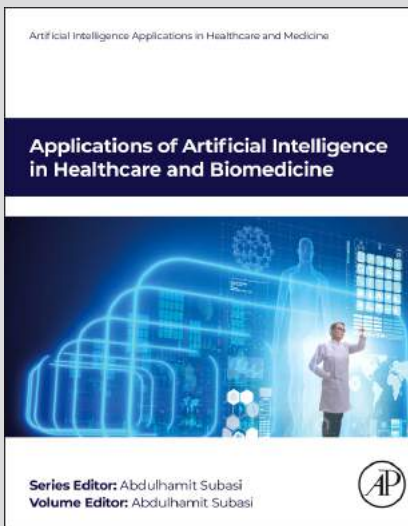
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ENGINEERING Biomedical

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Applications of Artificial Intelligence in Healthcare and Biomedicine

Abdulhamit Subasi, PhD., Full Professor, University of Turku, Finland

ISBN: 9780443223082
PUB DATE: Apr 08, 2024
LIST PRICE: £121.00 / \$150.00 / €142.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 191 x 235
PAGES: c. 294
AUDIENCE: Researchers, professionals, academicians, and graduate students on medical informatics. Researchers, professionals, academicians, and graduate students on computer science
BIC CODES: MBF
THEMA CLASSIFICATION: THEMAPSAX

Provides updated knowledge on the applications of artificial intelligence in medical image analysis

A Volume in the *Artificial Intelligence Applications in Healthcare and Medicine Series*

KEY FEATURES

- Provides knowledge on Artificial Intelligence algorithms for clinical data analysis
- Gives insights into both AI applications in biomedical signal analysis, biomedical image analysis, and applications in healthcare, including drug discovery
- Equips researchers with tools for early breast cancer detection

DESCRIPTION

Applications of Artificial Intelligence in Healthcare and Biomedicine provides updated knowledge on the applications of artificial intelligence in medical image analysis. In 16 chapters, it presents artificial applications in Electrocardiogram (ECG), Electroencephalogram (EEG) and Electromyography (EMG), signal analysis, Computed Tomography (CT), Magnetic Resonance Imaging (MR), and Ultrasound image analysis. It equips researchers with tools for early breast cancer detection from mammograms using artificial intelligence (AI), AI models to detect lung cancer using histopathological image, and a deep learning-based approach to get a proper and faster diagnosis of the Optical Coherence Tomography (OCT) images.

In addition, it presents 3D medical image analysis using 3D Convolutional Neural Networks (CNNs). Final sections cover an AI-based approach to forecast diabetes patients' hospital re-admissions. This is a valuable resource for clinicians, researchers, and healthcare professionals who are interested in learning more about the applications of Artificial Intelligence and its impact in medical/biomedical image analysis.



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LIFE SCIENCES Medical

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COVER IMAGE
FORTHCOMING

Overcoming Cancers Resistant to HER-2 Antibodies, Vol 3

Edited by : **Benjamin Bonavida**, Professor, Department of Microbiology, Immunology and Molecular Genetics, David Geffen School of Medicine, University of California, Los Angeles, USA

ISBN: 9780128164082
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €131.00
DISCOUNT: Reference
FORMAT: Hardback
TRIM: 7.50w x 9.25h
PAGES: c. 232
AUDIENCE: Cancer researchers, medical oncologists, clinicians, pharmacologists, translational investigators
BIC CODES: MJCL, MBNH, KNDH1
THEMA CLASSIFICATION: THEMAMJCL; THEMAMF; THEMATCB

General updated information on the resistance of various human cancers to anti-HER2 therapeutic antibodies

A Volume in the *Breaking Tolerance to Antibody-Mediated Immunotherapy Series*

KEY FEATURES

- Provides a general summary of various sensitizing agents that can work effectively when used in combination with anti-HER2 antibodies to reverse resistance
- Offers potential underlying mechanisms by which cancer cells are either inherently resistant or become unresponsive to antibody treatment
- Discusses how to develop new targeted agents to underlie resistance in order to expand research on this field

DESCRIPTION

Overcoming Cancers Resistant to HER-2 Antibodies provides general updated information on the resistance of various human cancers to anti-HER2 therapeutic antibodies. The book also discusses the description of various sensitizing agents that can reverse resistance when used in combination with anti-HER2 antibodies. There have been a lot of reports in which the treatment with anti-HER2 antibodies for various cancers has resulted in clinical responses; however, there have been also subsets of cancer patients who did not respond initially, and several responding patients developed resistance following treatments. Sections cover Lapatinib, Ganetespib, Paclitaxel, Celecoxib, Emantasine, Liposomal Doxorubicin, and Kinase Inhibitors.

This book is a valuable source for cancer researchers, oncologists, pharmacologists and different members of the biomedical field interested in fighting cancer resistance to HER-2 antibodies.



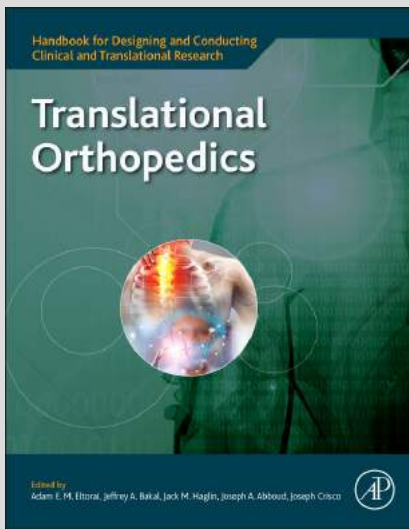
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Translational Orthopedics

Edited by : **Adam Eltorai**, Brown University Warren Alpert Medical School, Connecticut, USA; **Jeffrey A. Bakal**, Program Director, Provincial Research Data Services, Data Integration Management and Reporting of Alberta Health Services, Edmonton, Alberta, Canada; **Jack M. Haglin**; **Joseph Abboud** and **Joseph Crisco**

ISBN: 9780323856638
PUB DATE: Apr 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 8.50w x 10.875h
PAGES: c. 418
AUDIENCE: Researchers interested in translating their research into clinical practice
BIC CODES: PSA
THEMA CLASSIFICATION: THEMAPS

How-to-reference for designing and conducting translational medicine research in translational orthopedics

A Volume in the *Handbook for Designing and Conducting Clinical and Translational Research Series*

KEY FEATURES

- Focuses on the principles of evidence-based medicine and applies these principles to the design of translational investigations within orthopedics
- Provides a practical, straightforward approach that helps investigators navigate challenging considerations in study design and implementation
- Details discussions of the critical appraisal of published studies in translational orthopedics, supporting evaluation with respect to measuring outcomes and making effective use of all types of evidence in patient care

DESCRIPTION

Translational Orthopedics: Designing and Conducting Translational Research covers the principles of evidence-based medicine and applies these principles to the design of translational investigations. Readers will come to fully understand important concepts, including case-control study, prospective cohort study, randomized trial, and reliability study. Medical researchers will benefit from greater confidence in their ability to initiate and execute their own investigations, avoid common pitfalls in translational orthopedics, and know what is needed in collaboration. Further, this title is an indispensable tool in grant writing and funding efforts.

The practical, straightforward approach helps the aspiring investigator navigate challenging considerations in study design and implementation. The book provides valuable discussions of the critical appraisal of published studies in translational orthopedics, allowing the reader to learn how to evaluate the quality of such studies with respect to measuring outcomes and to make effective use of all types of evidence in patient care. In short, this practical guidebook will be of interest to every Medical Researcher or Orthopedist who has ever had a good clinical idea but not the knowledge of how to test it.



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COVER IMAGE
FORTHCOMING

Principles of Immunotherapy in Breast and Gastrointestinal Cancers

Activity, Mechanisms of Resistance and New Sensitization Strategies

Edited by : **Michele Ghidini**, Medical Oncologist, Fondazione IRCCS, Ca' Granda Ospedale, Maggiore Policlinico, Milano, Italy

ISBN: 9780443133763
PUB DATE: May 01, 2024
LIST PRICE: £134.00 / \$175.00 / €155.00
DISCOUNT: Reference
FORMAT: Hardback
TRIM: 7.50w x 9.25h
PAGES: c. 139
AUDIENCE: Graduate students and researchers in cancer research. Oncologists, clinicians
BIC CODES: MJCL
THEMA CLASSIFICATION: THEMAMJCL

Presents reliable knowledge on mechanisms of resistance and sensitizing strategies for immunotherapy in breast and gastrointestinal cancers

A Volume in the *Breaking Tolerance to Anti-Cancer Cell-Mediated Immunotherapy* Series

KEY FEATURES

- Presents relevant findings on immunotherapy for breast and GI cancer types in a synthetic and didactic way for easy consult
- Describes resistance mechanisms of those cancer types and how to overcome them to improve immunotherapy outcomes
- Encompasses several diagrams and figures to help readers get a clearer picture of research findings and how they can be applied to clinical settings

DESCRIPTION

Principles of Immunotherapy in Breast and Gastrointestinal Cancers: Activity, Mechanisms of Resistance and New Sensitization Strategies presents updated research findings on immunotherapy, with a special focus on the mechanisms of resistance of those cancer types and how to overcome them. The book discusses topics such as tumor cell-intrinsic and extrinsic mechanisms of cancer resistance to immunotherapy, the role of currently available biomarkers, strategies to overcome therapeutic resistance, sensitizing agents for cancer resistance to cell mediated immunotherapy, immunotherapeutic approaches, mechanisms of resistance, and sensitizing strategies in gastroesophageal and biliopancreatic tumors and colorectal cancer.

This is a valuable resource for researchers, students, and members of the biomedical and medical fields who want to learn more about resistance to immunotherapy and how to overcome it.



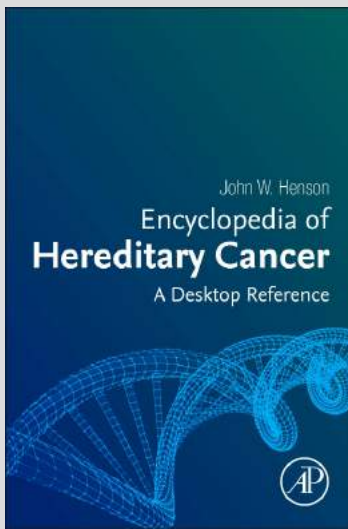
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Encyclopedia of Hereditary Cancer

A Desktop Reference

John W. Henson, Hereditary Cancer Clinic, Georgia Cancer Center, Augusta, GA, USA.

ISBN: 9780443135750
PUB DATE: Apr 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 6.00w x 9.00h

PAGES: c. 372

AUDIENCE: Clinicians, oncologists, cancer researchers, geneticists, researchers with an interest in hereditary cancer and cancer genetics, genetic counselors, cancer surgeons, neuro-oncologists, gastroenterologists, internists, and family practitioner

BIC CODES: PSA

THEMA CLASSIFICATION:
THEMAPS

Provides conceptual and factual treatments of 371 topics in hereditary cancer

KEY FEATURES

- Provides conceptual and factual treatments of 371 topics in hereditary cancer
- Gives quick access to a comprehensive guide on Hereditary Cancer
- Useful reference for researchers and clinicians

DESCRIPTION

Encyclopedia of Hereditary Cancer: A Desktop Reference gives insights into this young and rapidly expanding field that combines oncology and genetics to achieve risk reduction, early detection, family risk management, and identification targeted treatments. While genetics and oncology are both well-developed knowledge areas, their combination in hereditary cancer yields an opportunity for new works that systemize knowledge for current researchers, practitioners, and students. The book exams 371 topics through the lens of hereditary cancer. There are no similar books that presents information in this manner.

This reference work contains a complete list of terms and definitions which can be easily reference by researchers and clinicians working in this field.



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COVER IMAGE
FORTHCOMING

T Cell Metabolism and Cancer Immunotherapy

Edited by : **Jianxun Song**, Professor of Microbial Pathogenies and Immunology, Texas A&M University Health Science Center

ISBN: 9780443138270
PUB DATE: Jun 01, 2024
LIST PRICE: £134.00 / \$175.00 / €155.00
DISCOUNT: Reference
FORMAT: Hardback
TRIM: 7.50w x 9.25h
PAGES: c. 205
AUDIENCE: Cancer researchers, medical oncologists, clinicians, pharmacologists, translational investigators, buyer, library, Undergraduate and postgraduate courses in medicine, pharmacy, nursing, and related discipline
BIC CODES: PSA
THEMA CLASSIFICATION: THEMAPS

Offers a comprehensive overview on the field of immunotherapy, the challenges in cancer treatments, and up-to-date cancer discoveries

A Volume in the *Breaking Tolerance to Antibody-Mediated Immunotherapy Series*

KEY FEATURES

- Provides a summary of the current state-of-the-art, creating a valuable foundation for both established researchers and newcomers/students in the field of cancer immunotherapies
- Focuses on the investigation of cellular regulation of T-cell immunity and tolerance
- Defines the precise role and mechanism of T cell metabolism in modulating T cells and T cell-mediated immunity
- Presents insights to develop and optimize strategies for utilizing highly reactive T lymphocytes for cell-based therapies

DESCRIPTION

T Cell Metabolism and Cancer Immunotherapy investigates the cellular regulation of T-cell immunity and tolerance. Within ten chapters, the content not only reveals targets of T cell metabolism as critical determinants of immune regulation, but also uncovers unique therapeutic opportunities to improve immunotherapy through targeting T cell metabolism. This fills a significant gap in the knowledge of scientists working in the field of onco-immunology/immunotherapy, and students learning about T cells, metabolism, immunomodulation, and immunotherapy.

Because of the plasticity and potentially unlimited capacity for self-renewal, stem cell-derived T lymphocytes have great potential in the treatment of diseases, including cancer. Despite great advancement in immunotherapy, such as adoptive T cell transfer-based regimen, the clinical outcomes remain less satisfactory due to a variety of factors that lessen its therapeutic efficacy.



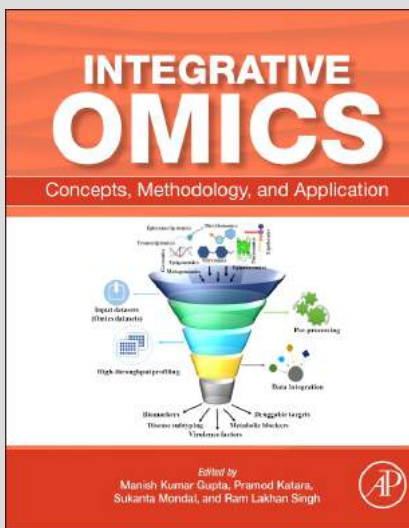
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Integrative Omics

Concept, Methodology, and Application

Edited by : **Manish Kumar Gupta**, PhD, Associate Professor, Department of Biotechnology, Veer Bahadur Singh Purvanchal University, Jaunpur, India; **Pramod Katara**, PhD, Assistant Professor, Centre of Bioinformatics, University of Allahabad, Prayagraj, India; **Sukanta Mondal**, Ph.D., Principal Scientist, National Institute of Animal Nutrition and Physiology, Adugodi, Bangalore, India and **Ram Laxhan Singh**, Vice-Chancellor, Nilamber-Pitamber University, Medininagar, Jharkhand, India

ISBN: 9780443160929
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 349

AUDIENCE: Students, researchers, and academicians in bioinformatics. Government/non-government agencies and professionals working in Bioinformatics, Computational Biology and Data Science, Drug Discovery and IT industry

BIC CODES: MBF

THEMA CLASSIFICATION: THEMAPSAX

Presents practical biological approaches currently employed to address construction of integrated networks in biological systems

KEY FEATURES

- Provides a holistic, integrated view of a defining and applying network approach, integrative tools, and methods to solve problems for rationalization of genotype to phenotype relationships
- Offers an interdisciplinary approach to Databases, data analytics techniques, biological tools, network construction, analysis, modeling, prediction and simulation of biological systems leading to 'translational research', i.e., drug discovery, drug target prediction, and precision medicine
- Covers worldwide methods, concepts, databases, and tools used in the construction of integrated pathways

DESCRIPTION

Integrative Omics: Concepts, Methodology and Applications provides a holistic and integrated view of defining and applying network approaches, integrative tools, and methods to solve problems for the rationalization of genotype to phenotype relationships. The reference provides systemic 'step-by-step' coverage that begins with basic concepts from Omic to Multi Integrative Omics approaches followed by applications and emerging and future trends. All areas of Omics are covered, including biological databases, sequence alignment, pharmacogenomics, nutrigenomics and microbial omics, integrated omics for Food Science and Identification of genes associated with disease, clinical data integration and data warehousing, translational omics, technology policy, and society research. This book covers recent concepts, methodologies, advancements in technologies and is also well-suited for researchers from both academic and industry background, undergraduate and graduate students who are mainly working in the area of computational systems biology, integrative omics and translational science.



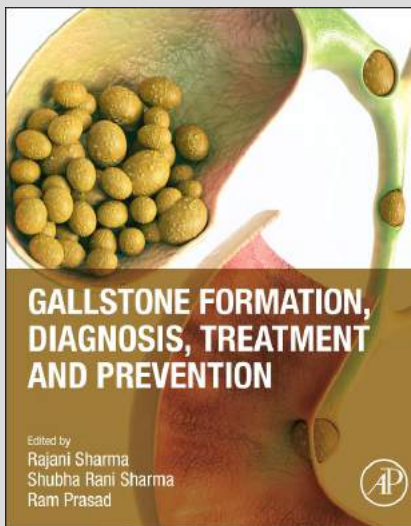
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Gallstone Formation, Diagnosis, Treatment and Prevention

Edited by : **Rajani sharma**, Assistant Professor, Amity Institute of Biotechnology; **Shubha rani sharma**, Assistant Professor, Birla Institute of Technology Mesra and **Ram Prasad**, PhD, Associate Professor, Department of Botany, Mahatma Gandhi Central University, Motihari-845401, Bihar, INDIA

ISBN: 9780443160981
PUB DATE: Apr 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 191 x 235
PAGES: c. 372
AUDIENCE: Researchers, scientists, academicians and policymakers, gastroenterologists, Medical students
BIC CODES: PSA
THEMA CLASSIFICATION: THEMAPS

Provides current research, challenges of gallstone formation, and potential alternative treatments to improve patient outcomes

KEY FEATURES

- Offers treatment methods, including both chemical and herbal methods
- Presents mechanisms behind gallstone formation that are important to researchers to determine treatment methods that can prevent cholecystectomy
- Includes the latest research on acute pancreatitis, one of the major concerns of gastrointestinal disease
- Discusses the effects of gallstone as a cancer-causing mechanism

DESCRIPTION

Gallstone Formation, Diagnosis, Treatment, and Prevention describes the current scenario of gallstones and adopted treatment methods. It is a complete reference for researchers introducing new techniques to help prevent extreme treatments such as a cholecystectomy. This reference provides current knowledge and basic challenges of understanding gallstone formation, with all variations of composition, including complications of the treatment process. This content directs researchers to focus on gallstone mechanisms to design and develop new treatment methods. The book provides all possible factors for gallstone formation as well as preventative measures.



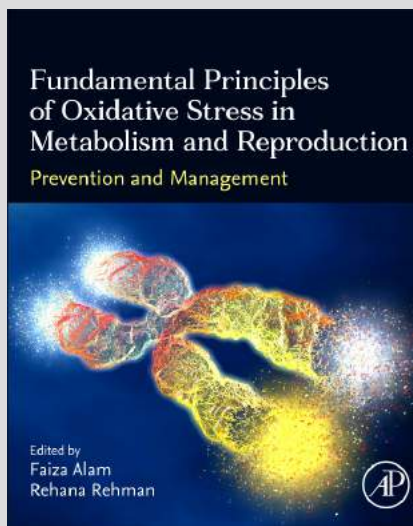
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Fundamental Principles of Oxidative Stress in Metabolism and Reproduction

Prevention and Management

Edited by : **Faiza Alam**, MBBS, M.Phil. PhD, Assistant Professor, Pengiran-Anak-Puteri-Rashidah-Sa'adatul-Bolkiah Institute of Health Sciences, Brunei, Institute of Health Sciences, Brunei Darussalam, Jalan Tungku Link, Gadon, Pakistan and **Rehana Rehman**, MBBS, M.Phil. PhD, Professor, Department of Biological & Biomedical Sciences, Aga Khan University, Karachi, Pakistan

ISBN: 9780443188077
PUB DATE: Apr 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 242
AUDIENCE: Endocrinologists, Gynecologists, Obstetricians, Scientists and researchers in biomedical fields, post graduate students
BIC CODES: MJG
THEMA CLASSIFICATION: THEMAMJG; THEMAMFGM

Provides thorough understanding of oxidative stress as a factor in the prognosis and treatment of human disease

KEY FEATURES

- Provides a holistic approach to the impact of oxidative stress on various systems
- Incorporates recent advances in basic sciences for improvement in oxidative stress leading to better prognosis of metabolic conditions
- Summarizes knowledge to detect oxidative stress for improvement of fertility outcomes

DESCRIPTION

Fundamental Principles of Oxidative Stress in Metabolism and Reproduction: Prevention and Management is a comprehensive resource for anyone needing awareness and recognition of oxidative stress as a basic component of disease to determine the precise treatment plan considering the cause of the disease. It describes the effects of oxidative stress in the human body, the detection of metabolic changes, psychological impact and effect on reproductive outcomes. In addition, it discusses alterations at the cellular level occurring due to oxidative stress along with the genetic aspects involved in its pathogenesis.



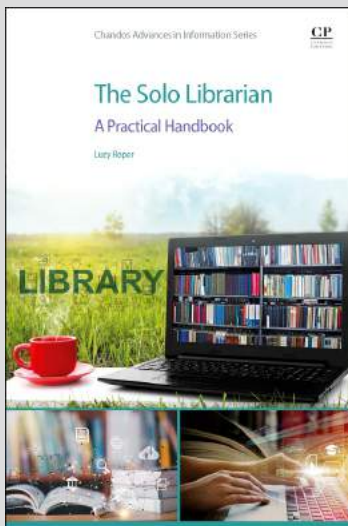
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The Solo Librarian

A Practical Handbook

Lucy Roper, BSc (Hons), PG CHEM, MCLIP, AFHEA. ORCID: 0009-0008-3176-2266, BSc (Hons), PG CHEM, MCLIP, AFHEA. ORCID: 0009-0008-3176-2266

ISBN: 9780443157950
PUB DATE: Apr 01, 2024
LIST PRICE: £75.00 / \$94.99 / €88.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 391
AUDIENCE: Solo Librarians, Librarians in small teams with limited help, Library Graduates, Subject Librarians, Trainee Librarians, Library Assistants, Library and Information Studies Students
BIC CODES: GL
THEMA CLASSIFICATION: THEMAGLC

Provides a one-stop-shop with accompanying templates for librarians and those working in information, knowledge and related disciplines

KEY FEATURES

- Becoming a solo librarian can be a daunting prospect. This book relays, as a solo librarian practitioner, the lessons the author has learnt, whilst creating and sharing guidance that assists others finding themselves in a similar role and/or a small team with limited help but with a mandate to connect to global trends and progress in the field of librarianship and information science.
- This Internationally applicable and practical handbook, however, provides a logical process of creating library provision and the services involved.

The solo librarian yearly planner and timeline of activities, supporting guidance and templates provided will be downloadable (via the eBook version) and can be adapted and utilised further to help aid the daily activities and processes often faced by library and information service(s) staff that include those working in information, knowledge, libraries and related disciplines in the UK and internationally.

DESCRIPTION

Actively diversifying the content to increase its relevance to an international audience, this practical handbook provides a one-stop-shop with accompanying time-saving templates that can be easily adapted to help aid the daily activities and processes often faced by those working in information, knowledge, libraries and related disciplines.

The Solo Librarian: A Practical Handbook provides an internationally applicable and practical handbook that shows a timeline of key activities that happen throughout, in this example, an academic year. Sections provide examples on Acquisitions, cataloguing, updating library guidance (before academic year start - September), Student and Staff Inductions (September/October), Quarterly Business Review to review updates and library usage (Oct – Dec), Library cover over student/staff holiday period (Dec), Quarterly Business Review (Jan – Mar), Quality standard(s) re-accreditation (April), Research methods/study skills webinars (April), Library cover over student holiday period (April), Quarterly Business Review (April – June), and much more.



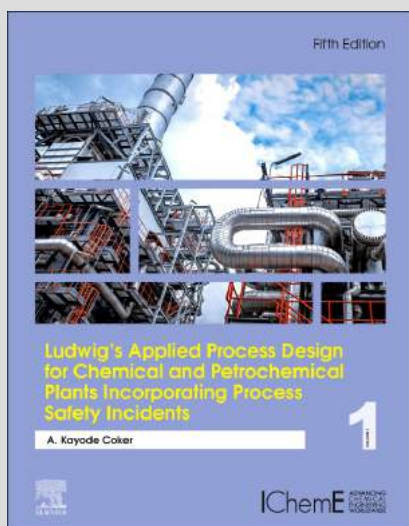
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Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents, 5e

Volume 1

A. Kayode Coker, Engineering Coordinator, Saudi Aramco Shell Refinery Company, Saudi Arabia

ISBN: 9780323917193

PREVIOUS ISBN: 9780750677660

PUB DATE: Apr 03, 2024

LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 8.50w x 10.875h

PAGES: c. 1190

AUDIENCE: Chemical Engineers, Engineering Students/graduates, Professionals and Technologists; Process/Chemical Engineering Managers, Senior Process/Chemical Engineers, Scientists and Researchers

BIC CODES: THFP, TH, TDCB

THEMA CLASSIFICATION: THEMAKNB; THEMATHFP; THEMATDC

A fully revised and updated volume providing up-to-date information on process safety planning for chemical and petrochemical plants

KEY FEATURES

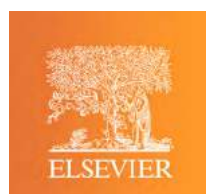
- Provides improved design manual for methods and proven fundamentals of process design with related data and charts; covers complete range of basic day-to-day refining, chemical and petrochemical operation topics.
- Extensively revised with new materials on non-Newtonian fluids, homogeneous and heterogeneous flows, and pressure drop calculations, ejectors, three-phase separation, metallurgy and corrosion; and optimization of chemical process/blending
- Includes process safety management (PSM) and process hazard analysis (PHA)/HAZOP studies, case studies of process safety incidents, guidance for troubleshooting and checklists; runaway reactions from AIChE based upon Design Institute for Emergency Relief Systems (DIERS)
- Illustrates sizing for Two-Phase Fluids; Types 1 & 2 (Omega Method), Type 3 Internal Method; compressible flow for discharge piping and relief blowdown system; Flare/Flare stack design
- Presents many examples using Honeywell UniSim Design software, developed and executable computer programs and Excel spreadsheet programs; includes software of Conversion Table and 40+ process data sheets in Excel format; provides glossary of petroleum and petrochemical terminologies and physical and chemical characteristics of major hydrocarbons.

DESCRIPTION

Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents is ever evolving starting with the first edition some 60 years ago. The volumes in this fifth edition provide improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to the properly detailed hardware. As indicative of the new title, process safety incidents are incorporated in many of the chapters, reviewing the root causes, and how these could be mitigated in future. Like its predecessor, this new edition continues to present updated information for achieving optimum operational and process conditions and to avoid problems caused by inadequate sizing and lack of internally detailed hardware. The volumes provide both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort. This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis.



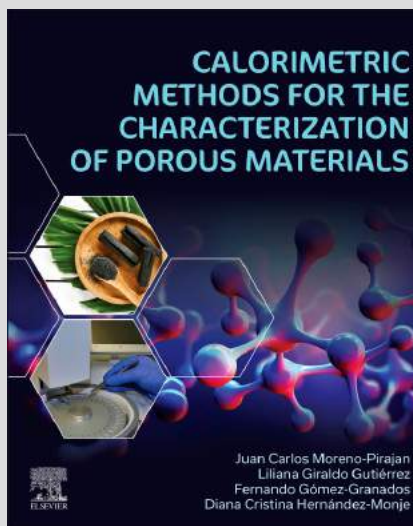
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CHEMISTRY Chemical Engineering

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Calorimetric Methods for the Characterization of Porous Materials

Juan Carlos Moreno-Piraján, Full Professor, Department of Chemistry, Universidad de los Andes, Bogotá, Colombia; **Liliana Giraldo Gutiérrez**, Full Professor, Department of Chemistry, Universidad Nacional de Colombia, Bogotá, Colombia; **Fernando Gómez-Granados**, Associate Professor, Department of Chemistry, Universidad Nacional de Colombia, Bogotá, Colombia and **Diana Cristina Hernández-Monje**, Research Assistant, Department of Chemistry, Department of Chemistry, Universidad Nacional de Colombia, Bogotá, Colombia

ISBN: 9780443137969
PUB DATE: Apr 01, 2024
LIST PRICE: £185.00 / \$235.00 / €205.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 327

AUDIENCE: Graduate level students and postdoc researchers in chemistry, chemical engineering, and materials science. Professionals working in industries including petroleum, polymers, and alternative energy (storage of gases such as methane, CO₂, hydrogen)

BIC CODES: PNR, TDCB, TGM

THEMA CLASSIFICATION:

THEMAPNR; THEMATDC;

THEMATGM

Presents the calorimetric methods used in the characterization of porous materials, providing insight into the concepts of thermodynamics and kinetics

KEY FEATURES

- Addresses the problems involved with the chemical thermodynamics of porous materials, with a significant practical element explaining experimental parameters and how to perform calculations
- Presents, in detail, the main instrumental calorimetric methods, including those that must be carefully considered to avoid experimental errors
- Demonstrates, step-by-step, how to perform calculations using data obtained from instrumentation to achieve reliable results
- Provides novel explanations on how to use calorimetry in catalyst characterization
- Allows readers to broaden the spectrum of the application of calorimetry in the study of materials

DESCRIPTION

Calorimetric Methods for the Characterization of Porous Materials presents calorimetric methods used in the characterization of porous materials using chemical thermodynamics. Among these materials, catalysts, supports and adsorbents (such as Activated Carbon, Metal-Organic-Frameworks, SBA-15, Zeolites, Graphene, Graphite, Carbon Foams) are presented. In addition, the use of calorimetry in the study of catalytic reactions in different phases is explored—applicable to air and wastewater treatment, clean and renewable energies, green chemistry, as well as energy production and storage (Carbon dioxide, methane and hydrogen at high pressure). Chapters summarize basic concepts of thermodynamics and kinetics alongside experimental techniques such as thermal analysis and calorimetry. In addition, information is given about different calorimetric methods that can be used in studies aimed at characterizing the physicochemical properties of adsorbents, supports and solid catalysts, as well as the processes related to the adsorption-desorption phenomena of the reactants and/or products of catalytic reactions.



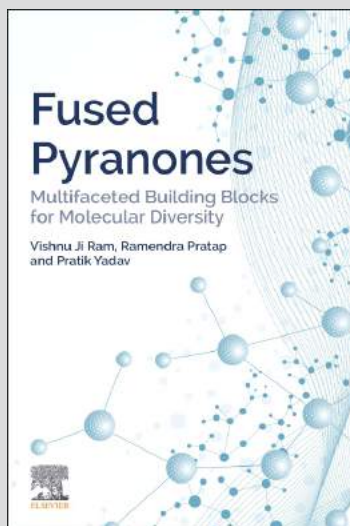
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CHEMISTRY Chemical Engineering

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Fused Pyranones

Multifaceted Building Blocks for Molecular Diversity

Vishnu Ji Ram, Emeritus Professor, Lucknow University; former Deputy Director, Central Drug Research Institute, Lucknow, India; **Ramendra Pratap**, Assistant Professor, Department of Chemistry, Delhi University, India and **Pratik Yadav**, Assistant Professor, Department of Chemistry, Kirori Mal College, University of Delhi, Delhi, India

ISBN: 9780128212172
PUB DATE: Apr 01, 2024
LIST PRICE: £195.00 / \$250.00 / €220.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 577
AUDIENCE: Synthetic organic chemists and medicinal chemists
Pharmacologists
BIC CODES: PNN
THEMA CLASSIFICATION:
THEMAPNN

Covers the synthesis and chemical reactivity of fused pyranone ring systems and their applications in drug discovery and material sciences

KEY FEATURES

- Includes various synthetic methodologies for generating molecular diversity
- Covers natural and synthetic products with benzopyranone ring systems, which are used for the treatment of diseases such as cancer, diabetes, ulcers, allergies, asthma, fungal, and bacterial infections, and more
- Discusses applications of these new chemical entities in the fields of drug discovery, food supplements, perfumery, preparation of new organic catalysts, and materials

DESCRIPTION

Fused Pyranones: Multifaceted Building Blocks for Molecular Diversity covers the synthesis and chemical reactivity of fused pyranone ring systems, such as coumarin, isocoumarin, chromonone, chroman-4-one, and others, as well as their applications in the fields of drug discovery and material sciences. Mechanisms of the chemical reactions are covered, along with the steps to formation of final products. This book is ideal for organic, medicinal and material chemists and researchers working to build target compounds for pharmaceuticals and materials, as well as those working in food supplements, perfumery, and cell and animal imaging.



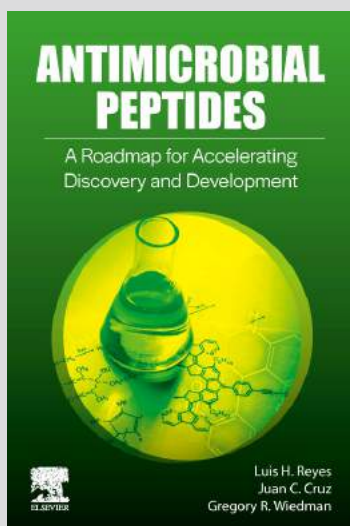
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CHEMISTRY Organic Chemistry

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Antimicrobial Peptides

A Roadmap for Accelerating Discovery and Development

Edited by : **Luis H. Reyes**, Associate Professor, Universidad de Los Andes Colombia, USA; **Juan C. Cruz**, Universidad de Los Andes Colombia, USA and **Gregory R. Wiedman**, Seton Hall University, NJ, USA

ISBN: 9780443153938
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 325
AUDIENCE: Organic chemists, analytical chemists, formulation chemists, Translational scientists, bioanalytical scientists
BIC CODES: PSB, PNN, MMG
THEMA CLASSIFICATION: THEMPSB; THEMAPPN; THEMAMKG

Contains comprehensive description of computational and experimental approaches for the discovery, manufacture, and clinical translation of antimicrobial peptides

KEY FEATURES

- Covers computational tools (including emerging artificial intelligence algorithms) and microfluidic systems for discovery and high-throughput screening of AMPs
- Discusses the application of bioprocess engineering scale-up approaches for AMPs' production and purification with the aid of process simulation tools and rapid prototyping
- Highlights user-centered design and formulation of products with AMPs
- Describes the whole pipeline for AMPs production

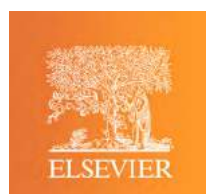
DESCRIPTION

Antimicrobial Peptides: A Roadmap for Accelerating Discovery and Development covers the most important efforts of scientists and engineers worldwide to accelerate the process of discovery, production, and eventual market penetration of more potent antimicrobial peptides. These efforts have been fueled by emerging technologies such as artificial intelligence and data science, molecular and CFD simulations, easy-to-use process simulation packages, microfluidics, 3D-printing, among many others. Such technologies can now be implemented and scaled up quickly and at relatively low cost in low-budget production facilities, critical to moving to sustainable and marketable products worldwide.

Discovering novel antimicrobial peptides rationally and cost-effectively has emerged as one of the significant challenges of modern biotechnology. Thus far, this process has been tedious and costly, resulting in molecules with activities far below those needed to address the current challenge of microbial resistance to antibiotics that takes the lives of thousands of people around the world every year. Finally, the book also highlights how multidisciplinary teams have assembled to address the challenges of manufacturing, biological testing, and clinical trials to finally reach complete translation.



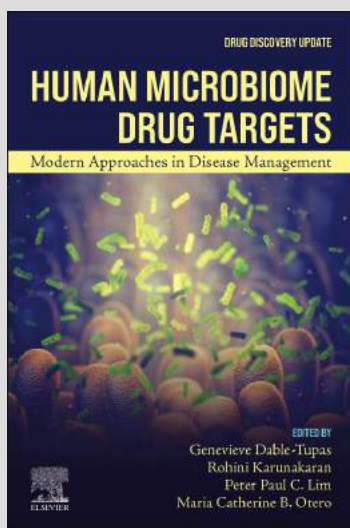
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CHEMISTRY Inorganic Chemistry

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Human Microbiome Drug Targets

Modern Approaches in Disease Management

Edited by : **Genevieve Dable-Tupas**, Associate Professor, Research Center, College of Medicine, Davao Medical School Foundation, Inc, Davao City, Philippines; **Rohini Karunakaran**, Associate Professor, Unit of Biochemistry, Preclinical Coordinator, Faculty of Medicine AIMST University, Malaysia; **Peter Paul C Lim**, Fellow, Pediatric Infectious Diseases Rainbow Babies and Children's Hospital- University Hospitals/Case Western Reserve University, USA and **Maria Catherine B Otero**, Biomedical Consultant College of Medicine Research Center, Davao Medical School Foundation, Inc. (DMSFI), Davao City, Philippines

ISBN: 9780443154355
PUB DATE: Apr 01, 2024
LIST PRICE: £175.00 / \$225.00 / €200.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 325

AUDIENCE: Drug developers, medicinal chemists, microbiologists, infectious disease specialists, biochemists, naturopathy practitioners, healthcare professionals (doctors, nurses and allied health professionals), researchers and students (medical, biology, chemistry, pharmacy) Health regulatory agencies and policy makers

BIC CODES: PNN, MMG

THEMA CLASSIFICATION:

THEMAMKG; THEMAPPN

Presents complete coverage of the fundamental information on the importance of the human microbiome to drug discovery

KEY FEATURES

- Provides readers with background information on the human microbiome, its evolution, and current understanding
- Includes chapters dedicated to the importance of the human microbiome as "drugs" and as drug targets
- Serves as a guide to drug developers working in pharma, biotech, and academia, bringing together the latest research on the topic

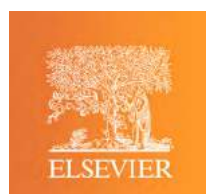
DESCRIPTION

Human Microbiome Drug Targets: Modern Approaches in Disease Management presents fundamental information on the human microbiome, looking into the relationship between the microbiome and how it changes with specific diseases. Delving into the multifaceted roles of the microbiome in health and disease, the book's chapters discuss the role of the human microbiome in the pathophysiological understanding of relevant diseases or disorders and their management. As changes in the human microbiome can provide clues to the probable cause and effect of diseases or disorders, as well as the impacts of therapy or intervention, this book is a welcomed addition to the existing research.

Explaining how a better understanding of the microbiome and its impact on health and disease can pave the way for future discoveries leading to better health outcomes, this book will be of interest to drug developers, medicinal chemists, microbiologists, infectious disease specialists, biochemists, and students.



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CHEMISTRY Organic Chemistry

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Green Approaches in Medicinal Chemistry for Sustainable Drug Design, Vol 2, 2e

Methods

Edited by : **Bimal Krishna Banik**, Vice President of Research and Education Development, Community Health Systems of South Texas, USA

ISBN: 9780443161643
PUB DATE: Apr 01, 2024
LIST PRICE: £180.00 / \$230.00 / €200.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 558

AUDIENCE: Medicinal chemists, pharmaceutical, biotechnologists, green chemists and environmental chemists working in both academia and industry; postgraduate students in related fields. Scientists working in Government Research Agencies; industrial scientists

BIC CODES: PNN, MMG

THEMA CLASSIFICATION:

THEMAMKG; THEMAPPN

A guide to understanding and implementing effective green medicinal chemistry for improved sustainability in the drug discovery process

A Volume in the *Advances in Green and Sustainable Chemistry Series*

KEY FEATURES

- Highlights the need for the adoption of sustainable and green chemistry pathways in drug development
- Reveals risk factors associated with the drug development process and the ways sustainable approaches can help address these factors
- Identifies novel and cost effective green medicinal chemistry approaches for improved efficiency and sustainability

DESCRIPTION

Green Approaches in Medicinal Chemistry for Sustainable Drug Design: Methods, Second Edition reveals how medicinal chemistry can play a direct role in addressing this issue. After providing essential context on the growth of green chemistry in relation to drug discovery, the book identifies a range of practical techniques and useful insights, revealing how medicinal chemistry techniques can be used to improve efficiency, mitigate failure, and increase the environmental benignity of the entire drug discovery process. Drawing on the knowledge of a global experts, the book encourages the growth of green medicinal chemistry, and supports medicinal chemists, drug discovery researchers, pharmacologists, and more.

This volume covers synthesis methods following green chemistry principles, contributing to sustainability by saving energy, using lesser toxic reagents/solvents/catalysts and environmentally benign sources, including plants and agricultural materials.



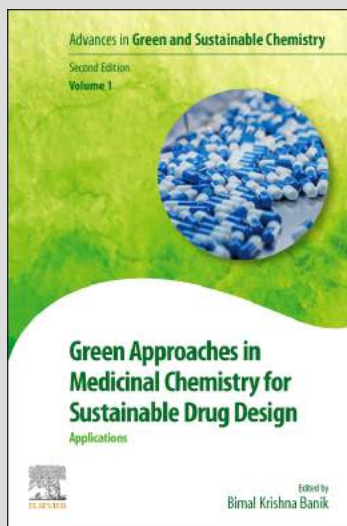
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CHEMISTRY Organic Chemistry

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Green Approaches in Medicinal Chemistry for Sustainable Drug Design, Vol 1, 2e

Applications

Edited by : **Bimal Krishna Banik**, Vice President of Research and Education Development, Community Health Systems of South Texas, USA

ISBN: 9780443161667
PUB DATE: Apr 01, 2024
LIST PRICE: £180.00 / \$230.00 / €200.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 558

AUDIENCE: Medicinal chemists, pharmaceutical, biotechnologists, green chemists and environmental chemists working in both academia and industry; postgraduate students in related fields. Scientists working in Government Research Agencies; industrial scientists

BIC CODES: PNN, MMG

THEMA CLASSIFICATION:

THEMAMKG; THEMAPPN

A guide to understanding and implementing effective green medicinal chemistry for improved sustainability in the drug discovery process

A Volume in the *Advances in Green and Sustainable Chemistry Series*

KEY FEATURES

- Highlights the need for adoption of sustainable and green chemistry pathways in drug development
- Reveals risk factors associated with the drug development process and the ways sustainable approaches can help address these
- Identifies novel and cost effective green medicinal chemistry approaches for improved efficiency and sustainability

DESCRIPTION

Sustainable and Green Approaches in Medicinal Chemistry: Applications, Second Edition reveals essential context on the growth of green chemistry in relation to drug discovery, identifying a broad range of practical techniques and useful insights and revealing how medicinal chemistry techniques can be used to improve efficiency, mitigate failure, and increase the environmental benignity of the entire drug discovery process. The book encourages the growth of green medicinal chemistry and supports medicinal chemists, drug discovery researchers, pharmacologists, and all those in related fields across both academia and industry in integrating these approaches into their own work.

This volume includes the development of nanoparticles and nanocomposites, as well as the application of ultrasound and microwave-induced methods; studies solventless synthesis; defines the role of steroids; studies reactions in aqueous solution; identifies enzyme-mediated reactions; investigates ionic liquids and deep eutectic solvents; explores natural products; investigates solid supports; realizes the effects of salts; focuses on combinatorial chemistry; develops one-pot methods; analyzes multi-component reactions; investigates dipole moment values; and examines computer-assisted methods.



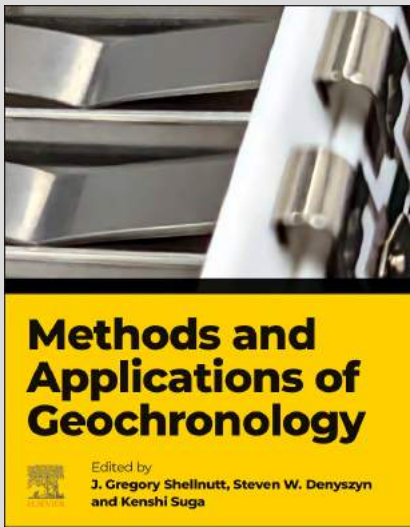
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CHEMISTRY Organic Chemistry

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Methods and Applications of Geochronology

Edited by : **Gregory Shellnutt**, Department of Earth Sciences National, Taiwan Normal University, Taiwan; **Steve Denyszyn**, Department of Earth Sciences, Memorial University of Newfoundland, Canada and **Kenshi Suga**, Department of Earth Sciences, National Taiwan Normal University, Taiwan

ISBN: 9780443188039
PUB DATE: Apr 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 465

AUDIENCE: Universities, research institutes, and government agencies related to Earth-system sciences (e.g., geological surveys, Earth Science departments, geochronology laboratories, marine institutes, natural history museums). Mineral exploration, petroleum and natural gas exploration, and possibly other educational institution (e.g., technical colleges). Constraining the timing of deformation, deposition, or fluid remobilization is key to understanding mineral deposit formation. Moreover, providing new methods for fossil geochronology can help to assess petroleum potential as 70% of oil deposits were formed during the Mesozoic

BIC CODES: PGC

THEMA CLASSIFICATION:
THEMAPHVB

Presents modern perspectives that highlight state-of-the-art methods and applications in geochronology

KEY FEATURES

- Features the latest techniques and recommended tools for each of the most common geochronological methods.
- Includes perspectives from a variety of well-respected researchers in the field, each representing different specialties of geochronology
- Bridges the gap between theory and application, offering best practices and relevant case studies throughout

DESCRIPTION

Methods and Applications of Geochronology provides a comprehensive, practical guide to the rapidly developing field of geochronology. Chapters are written by leading experts in their specific field of geochronology and discuss practical information and 'rules of thumb' for establishing laboratories and using analytical equipment. *Methods and Applications of Geochronology* is an authoritative guide not only for the foundational principles of geochronological research, but also descriptions of analytical methods, guidance for sample selection, all the way to data reduction and presentation.

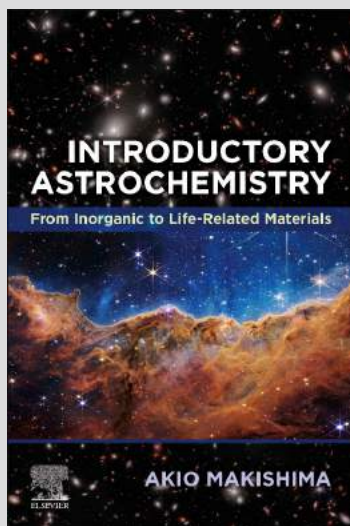


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Introductory Astrochemistry

From Inorganic to Life-Related Materials

Akio Makishima, Professor, Institute for Planetary Materials, Okayama University, Japan

ISBN: 9780443239380
PUB DATE: Apr 01, 2024
LIST PRICE: £105.99 / \$130.00 / €121.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 279
AUDIENCE: Researchers and students in astrogeology, astrophysics, astrochemistry, astrobiology, astronomy, and other space science fields
BIC CODES: TTD, PGC, PGK, PN
THEMA CLASSIFICATION: THEMAPHVB; THEMAPGK; THEMARN; THEMATTD

Presents up-to-date results on theories, observations, experiments, and data of various astrosiences (astrobiology, astrophysics, astronomy, astrochemistry and mineralogy)

KEY FEATURES

- Includes detailed data references on astrochemistry and astronomy of the Universe, stars, planets, and moons, and applies them to the Solar System
- Combines knowledge from the fields of mineralogy, astrophysics, astrochemistry, astrobiology, astronomy, and more
- Integrates conclusions from multiple fields and interdisciplinary topics to form a holistic understanding
- Includes extensive figures and tables to enhance key concepts

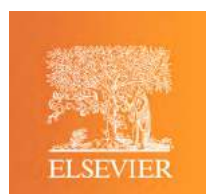
DESCRIPTION

Introductory Astrochemistry: From Inorganic to Life-Related Materials provides a detailed examination of the origins of planets, their satellites, and the conditions that led to life itself. Drawing on theories, experiments, observations, calculations, and analytical data from five distinct astrosiences, including astronomy, astrobiology, astrogeology, astrophysics, and astrochemistry, the book provides a comprehensive understanding of the formation and evolution of our Solar System and applies it to other solar systems. The book begins with fundamental knowledge in the astrosiences, building upon understanding systematically up to the formation of the early Solar System.

This book is an interdisciplinary reference for researchers and advanced students in astrogeology, astrophysics, astrochemistry, astrobiology, astronomy, and other space sciences, helping to foster a deeper understanding of the interconnections between these disciplines.



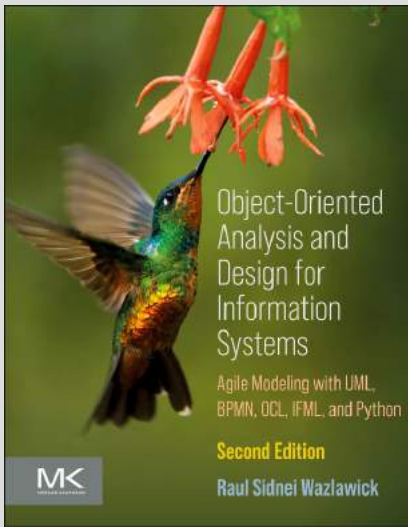
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Object-Oriented Analysis and Design for Information Systems, 2e

Modeling with BPMN, OCL, IFML, and Python

Raul Sidnei Wazlawick, Full Professor, Universidade Federal de Santa Catarina, Brazil

ISBN: 9780443137396
PREVIOUS ISBN: 9780124186736
PUB DATE: Apr 01, 2024
LIST PRICE: £64.95 / \$84.95 / €73.95
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 391
AUDIENCE: Computer Science researchers, data science researchers, and software engineers working in academia and industry, including Systems Analysis and Design professionals, Graduate students and senior undergraduate students in Computer Science, data science, information systems, and software engineering
BIC CODES: UB
THEMA CLASSIFICATION: THEMAUNC

Presents a methodical and thorough explanation of object-oriented software analysis and design, including agile software development with BPMN, IFML, and Python

KEY FEATURES

- Learn how to build better class models, which are more maintainable and understandable
- Write use cases in a more efficient and standardized way, using more effective and less complex diagrams
- Build true object-oriented code with division of responsibility and delegation
- Covers contemporary themes such as agile methodologies and BPMN (Business Process Modeling and Notation)

DESCRIPTION

Object-Oriented Analysis and Design for Information Systems, Second Edition clearly explains real object-oriented programming in practice. Expert author Raul Sidnei Wazlawick explains concepts such as object responsibility, visibility, and the real need for delegation in detail. The object-oriented code generated by using these concepts in a systematic way is concise, organized and reusable. The patterns and solutions presented in this book are based in research and industrial applications. You will come away with clarity regarding processes and use cases and a clear understanding of how to expand a use case. Wazlawick clearly explains how to build meaningful sequence diagrams. *Object-Oriented Analysis and Design for Information Systems* illustrates how and why building a class model is not just placing classes into a diagram. You will learn the necessary organizational patterns so that your software architecture will be maintainable. The Second Edition includes all new content shifting the focus of the book to agile software development, including Scrum software project management, BPMN diagrams, user stories, and Python code examples.



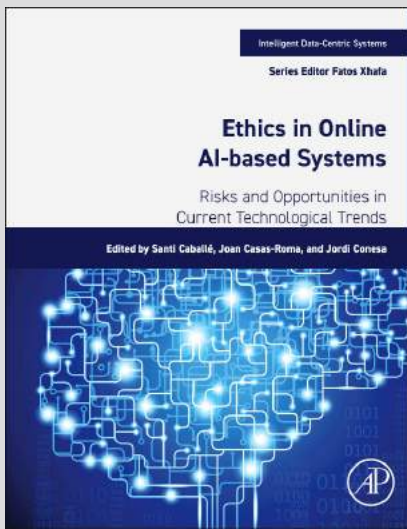
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Ethics in Online AI-Based Systems

Risks and Opportunities in Current Technological Trends

Edited by : **Joan Casas-Roma**; **Santi Caballé**, Professor, Faculty of Computer Science, Multimedia and Telecommunications, Universitat Oberta de Catalunya, Barcelona, Spain and **Jordi Conesa**, Faculty of Computer Sciences, Multimedia and Telecommunication, eHealth Center at Universitat Oberta de Catalunya (UOC), Barcelona, Spain

ISBN: 9780443188510
PUB DATE: Apr 01, 2024
LIST PRICE: £130.00 / \$170.00 / €148.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 325

AUDIENCE: Researchers, professionals, and graduate students in computer science and engineering; researchers and professionals in industries that use intelligent data-centric systems, including designers and developers, decision-makers and managers, ethics committee members, and members of legal departments. Policy makers and technology entrepreneurs interested in identifying ethically-desirable opportunities and developing new ways of applying technologies to solve global and local challenges

BIC CODES: UB, UYQ, UYQE, TB, UFL, UT

THEMA CLASSIFICATION:

THEMAKJ; THEMAUFL; THEMAUYQ; THEMAUYQE; THEMAKJT; THEMAUT; THEMAUNC

Explores future ethical risks and challenges as well as potential opportunities that may arise with artificial intelligence applications

A Volume in the *Intelligent Data-Centric Systems Series*

KEY FEATURES

- Investigates how "intelligent" technological advances might be used, how they will affect social interactions, and what ethical consequences they might have for society
- Identifies and reflects on questions that need to be asked before the design, deployment, and application of upcoming technological advancements, aiming to both prevent and mitigate potential risks, as well as to identify potentially ethically-beneficial opportunities
- Recognizes the huge potential for ethically-relevant outcomes that technological advancements have, and take proactive steps to anticipate that they be designed from an ethically-informed position
- Provides reflections that highlight the importance of the relationship between technology, their users and our society, thus encouraging informed design and educational and legislative approaches that take this relationship into account

DESCRIPTION

Ethics in Online AI-Based Systems: Risks and Opportunities in Current Technological Trends creates a space to explore the ethical relevance that new technologies under development may have. Stimulating reflection and considerations with respect to the design, deployment, and use of technology helps readers guide current and future technological advancements from an ethically informed position to ensure that such advancements contribute towards solving current global and social challenges that we, as a society, have today. This will not only be useful for researchers and professional engineers, but also for educators, policy makers, and ethicists.

Recent technological advancements have deeply transformed society and the way people interact with each other. Instantaneous communication platforms have allowed connections with other people, forming global communities and creating unprecedented opportunities in many sectors, making access to online resources more ubiquitous by reducing limitations imposed by geographical distance and temporal constraints. These technological developments bear ethically relevant consequences with their deployment, and legislations often lag behind such advancements.



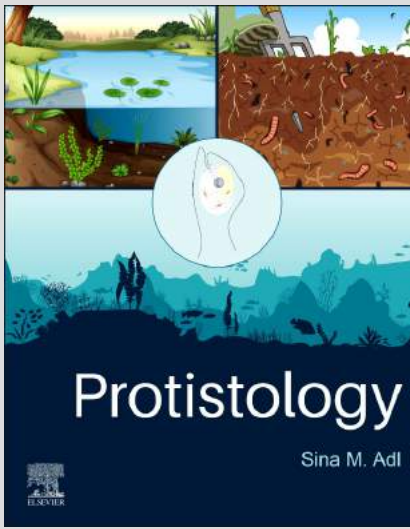
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Protistology

Sina M. Adl, Professor, Department of Soil Sciences, College of Agriculture and Bioresources, University of Saskatchewan, Saskatchewan, Canada

ISBN: 9780323952996
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 /
€131.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 344

AUDIENCE: Students and educators of microbial ecology, biodiversity and natural history, molecular phylogenies and bioinformatics, evolution, parasitology, and environmental sciences, Professionals in these sectors: pharmaceutical discovery, environmental remediation, pollution control, government environment and parks agencies, sustainable agriculture, plant pathology, animal and zoonotic diseases, algal biofuels, algal nutraceuticals and food supplements or additives, veterinary pathology, crop diseases, and medical microbiology and pathology clinicians

BIC CODES: PSA

THEMA CLASSIFICATION:

THEMAPS

Provides recent developments in understanding the diversity of cell biology, genomic processes, parasite-host interactions and the evolution of eukaryotes

KEY FEATURES

- Covers the entire breadth of protists, including numerous illustrations, photographs and figures
- Provides an accessible, modern classification of protists
- Presents comparative cell biology and evolutionary trends in the diversity of protists

DESCRIPTION

Protistology provides a comprehensive overview on recent developments in understanding the diversity of cell biology, genomic processes, parasite-host interactions, and the evolution of eukaryotes. The book is the first modern treatise on these organisms, walking readers through protistology's diversity and classification. This book is an ideal supplemental text for upper-level undergraduates and graduate students in microbial ecology, freshwater and marine biology, soil ecology, environmental sciences, or those looking to initiate a course in protistology.



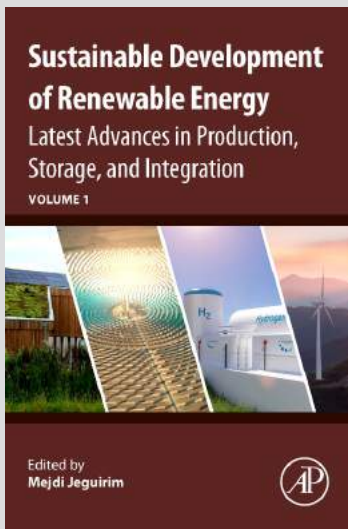
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EARTH & ENVIRONMENT Ecology

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Sustainable Development of Renewable Energy

Latest Advances in Production, Storage, and Integration

Edited by : **Mejdı Jeguirim**, Associate Professor, University of Alsace, France

ISBN: 9780443136139
PUB DATE: Apr 01, 2024
LIST PRICE: £138.00 / \$180.00 / €160.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 465
AUDIENCE: Graduates, researchers, professors, and industry professionals involved in the renewable energy sector, Advanced engineering courses dealing with renewable energy, sources, thermal and electrical energy production, and sustainability
BIC CODES: THX, TH, TVF, RN, KNB, KCJ
THEMA CLASSIFICATION: THEMATHV; THEMATH; THEMATVF; THEMATQ; THEMAKNB; THEMAKCJ

A guide to latest advances in sustainable development and production performance of renewable energies

A Volume in the *Advances in Renewable Energy Technologies Series*

KEY FEATURES

- Includes the advantages and disadvantages of key advances in renewable technologies
- Contributed to by global experts, with a focus on principles and challenges of renewable energy production and distribution
- Emphasizes the importance of sustainability, policy, and regulation in relation to successful and achievable implementation

DESCRIPTION

Sustainable Development of Renewable Energy, Volume One in the *Advances in Renewable Energy Technologies* series, looks at the production performance of renewable energy sources and emerging production processes. Chapters cover some of the most dynamic developments, best practices, and future concepts in solar energy systems, energy storage, geothermal energy, bioenergy, wind energy, fuel cells, and hydrogen production. The book also includes recent regulations and worldwide policies. By reviewing these state-of-art advances, this book provides readers with an up-to-date source on renewable energy grid integration and its importance in aiding the energy transition.

This is a valuable resource for graduates, researchers, professors, and industry professionals involved in the renewable energy sector, as well as advanced engineering courses dealing with renewable energy, sources, thermal and electrical energy production, and sustainability.



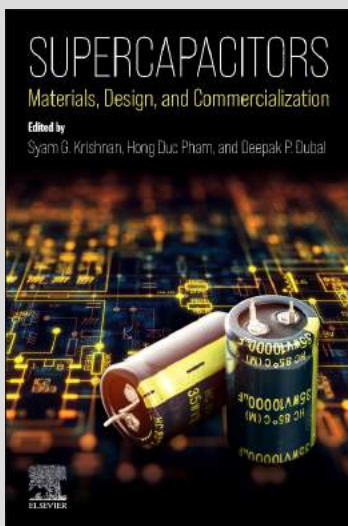
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ENGINEERING Energy

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Supercapacitors

Materials, Design, and Commercialization

Edited by : **Syam G. Krishnan**, School of Chemistry and Physics, Queensland University of Technology, Gardens Point Campus, Brisbane, Australia; **Hong Duc Pham**, Centre for Materials Science, School of Chemistry and Physics, Queensland University of Technology, Gardens Point Campus, Brisbane, Australia and **Deepak P. Dubal**, School of Chemistry and Physics, Queensland University of Technology, Gardens Point Campus, Brisbane, Australia

ISBN: 9780443154782
PUB DATE: Apr 01, 2024
LIST PRICE: £138.00 / \$180.00 / €160.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 372

AUDIENCE: Academic: Advanced students, researchers, and scientists in the fields of energy storage, electrical engineering, materials science, and chemical engineering
Industry: Engineers working with supercapacitors or energy storage more broadly, R&D professionals, energy consulting companies

BIC CODES: PHH

THEMA CLASSIFICATION: THEMAPHH

A detailed guide to the latest advances in supercapacitor design, materials, electrolytes, and commercialization

KEY FEATURES

- Brings together the latest developments in supercapacitor materials and electrolytes
- Discusses cutting-edge charge storage concepts and methods for supercapacitors
- Addresses the role of machine learning and the scale-up from laboratory to commercialization

DESCRIPTION

Supercapacitors: Materials, Design, and Commercialization provides a comprehensive overview of the latest research trends and opportunities in supercapacitors, particularly in terms of novel materials and electrolytes. The book addresses the transformation in supercapacitive technology from double layer capacitance to battery-type capacitance, providing a clear understanding of the conceptual differences between various charge storage processes for supercapacitors, charge storage based on materials and electrolytes, and calculation for capacitance for these charge processes. Detailed chapters discuss recent developments in materials, such as carbons, chalcogenides, MXene and phosphorene, various polymer nanocomposites, and polyoxometalates for supercapacitors.

This is followed by in-depth coverage of electrolytes, including the evolution of electrolytes from aqueous to water-in-salt electrolytes and their role in improving the energy density of supercapacitors. The final part of the book examines the role of artificial intelligence in the design of supercapacitors, and latest developments in translating novel supercapacitor technologies from laboratory-scale research to a commercialization.



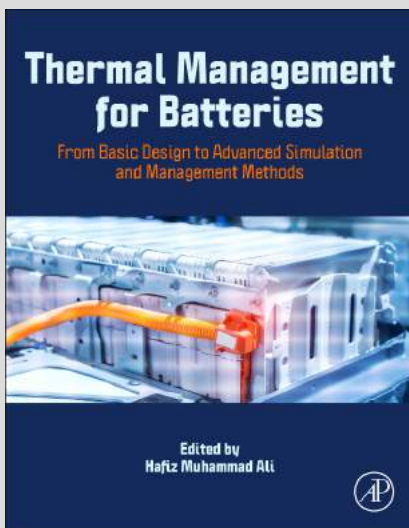
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ENGINEERING Energy

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Thermal Management for Batteries

From Basic Design to Advanced Simulation and Management Methods

Edited by : **Hafiz Muhammad Ali**, Department of Mechanical Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

ISBN: 9780443190254
PUB DATE: Apr 01, 2024
LIST PRICE: £133.99 / \$165.00 / €153.99

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 288

AUDIENCE: Graduates, researchers, and practicing engineers working on battery thermal management systems. Electrical, thermal, and energy engineers working more generally in the fields of energy storage, energy engineering, and thermal engineering

BIC CODES: KCN, KNAC, RN

THEMA CLASSIFICATION:

THEMAKCVG; THEMATQ;

THEMAKNA

A comprehensive examination of the fundamentals through to the latest developments in battery thermal management systems

KEY FEATURES

- Critically examines the components of batteries systems and their thermal energy generation
- Analyzes system scale integration of battery components with optimization and better design impact
- Explores the modeling aspects and applications of nanofluid technology and PCMs, as well as the utilization of machine learning techniques
- Provides step-by-step guidance on techniques in each chapter that are supported by mathematical models, schematic diagrams, and experimental data

DESCRIPTION

Thermal Management for Batteries: From Basic Design to Advanced Simulation and Management Methods presents a comprehensive examination of the various conventional and emerging technologies used for thermal management of batteries and electronics. With an emphasis on advanced nanofluids, the book provides guidance on advanced techniques at the component and system level for both active and passive technology. Sections discuss advanced battery technologies and address the design and performance optimization of battery thermal management systems, discuss the design selection of various thermal management systems and parameters selection for different configurations, and more.

Advanced techniques such as heat pipes, phase change materials, nanofluids, novel heat sinks, and two phase flow loops are also examined in detail. Presenting the fundamentals through to the latest developments alongside step-by-step guidance, mathematical models, schematic diagrams, and experimental data, this book is an invaluable and comprehensive reference for graduates, researchers, and practicing engineers working in the field of battery thermal management.



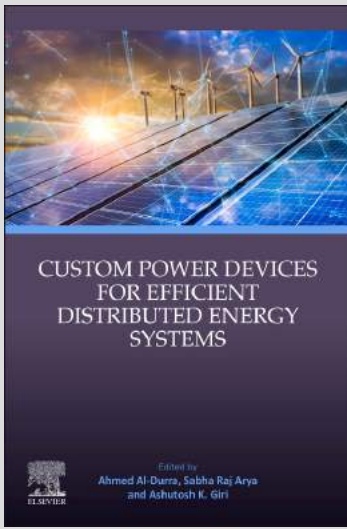
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ENGINEERING Energy

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Custom Power Devices for Efficient Distributed Energy Systems

Edited by : **Ahmed Al-Durra**, Professor, Electrical Engineering and Computer Science Department, Khalifa University; **Sabha Raj Arya**, Associate Professor, Department of Electrical Engineering, Sardar Vallabhbhai National Institute of Technology and **Ashutosh K. Giri**, Assistant Professor, Electrical Engineering Department, Government Engineering College

ISBN: 9780443214912
PUB DATE: May 01, 2024
LIST PRICE: £130.00 / \$170.00 / €148.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 279

AUDIENCE: Academia: Advanced students, researchers, and faculty, with an interest in power generation systems, renewable energy, power systems engineering, and grid integration. Industry: Practicing engineers, R&D professionals, managers, and other industry personnel in the renewable energy sector

BIC CODES: TH, THRM, THX, KNB

THEMA CLASSIFICATION:

THEMATH; THEMATHR;
THEMATHY; THEMATHV;
THEMAKNB

A state-of-the-art, practical guide to custom power devices for efficient distributed energy systems, focusing on renewable energy sources

KEY FEATURES

- Covers established as well as advanced control algorithms for the operation of custom power devices
- Extensively explains circuit design and its testing for solar and wind-based energy conversion systems
- Includes simulation results and mathematical modeling of control algorithms
- Presents applications of converter topologies in solar, wind, hydro, and other power generation systems

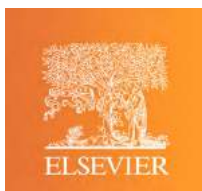
DESCRIPTION

Custom Power Devices for Efficient Distributed Energy Systems presents a range of novel ideas and concepts based on renewable energy-fed power generation and control, offering avenues to efficient utilization and improved power quality and addressing power quality issues such as harmonics compensation, supply current balancing, and neutral current compensation. The book begins by introducing distributed power systems within the global renewable energy context, reviewing different types of renewable energy sources and distributed power generation systems, and detailing custom power device design and modeling.

This is followed by individual chapters, providing in-depth coverage of specific techniques and applications with insights into various topologies, as well as control algorithms, used for power control in a range of distributed energy conversion systems, such as solar, wind, hydro, and other power sources. Finally, power quality issues in renewable energy distributed generation are discussed and addressed in detail. This is a valuable resource for researchers, faculty, and advanced students with an interest in power generation systems, renewable energy, and power systems engineering, as well as practicing engineers, R&D professionals, managers, and other industry personnel in the renewable energy sector.



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ENGINEERING Electrical

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Advanced Materials based Thermally Enhanced Phase Change Materials

Fundamentals and Applications

Edited by : **Hafiz Muhammad Ali**, Department of Mechanical Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

ISBN: 9780443215742
PUB DATE: Apr 01, 2024
LIST PRICE: £142.00 / \$185.00 / €165.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 465

AUDIENCE: Students, engineers, and researchers who work in the field of thermal process engineering, energy storage, thermal management, building energy saving, PCM applications and other renewable energy technologies such as solar power applications

BIC CODES: TVF, RN, THX, TJ, TH

THEMA CLASSIFICATION:

THEMATVF; THEMATQ; THEMATHV; THEMATJFD; THEMATH

Offers critical analysis of advanced materials used to enhance thermal characteristics of phase change materials (PCMs)

KEY FEATURES

- Provides an in-depth explanation of phase change materials (PCMs), heat transfer, and thermal characteristics and applications
- Covers applications and challenges for commercialization
- Explores advanced materials such as nanoparticles, graphene, carbon nanotubes, MXene, metallic foams, and micro fins

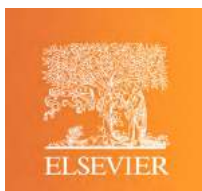
DESCRIPTION

Advanced Materials-based Thermally Enhanced Phase Change Materials: Fundamentals and Applications focuses on the use of advanced materials to enhance the thermal characteristics of phase change materials used to maximize heat transfer rate and thermal storage capability of PCMs. The book covers the various aspects of PCMs through characteristics and preparation to heat transfer enhancement with an emphasis on prominent applications. It progresses from a brief history to a literature review, definitions, recent advances, preparation techniques, thermophysical properties and heat transfer characteristics with mathematical models, performance-affecting factors, and applications and challenges of PCMs in manufacturing.

This powerful tool for researchers and energy engineers offers cutting-edge materials advances, analysis and applications of phase change materials in manufacturing.



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PHYSICAL SCIENCES

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BIOPROCESS ENGINEERING PRINCIPLES

Third Edition



Pauline M. Doran, Kate Morrissey,
and Ross P. Carlson



Bioprocess Engineering Principles, 3e

Pauline M. Doran, Ph.D., Swinburne University of Technology, Faculty of Science, Engineering and Technology, School of Science, Department of Chemistry and Biotechnology, Victoria, Australia; **Ross Carlson**, Ph.D., Department of Chemical and Biological Engineering, Montana State University, Bozeman, MT, USA and **Kate Morrissey**, Ph.D., Department of Chemical and Biological Engineering, Montana State University, Bozeman, MT, USA

ISBN: 9780128221914
PREVIOUS ISBN: 9780122208515
PUB DATE: Jun 06, 2024
LIST PRICE: £89.95 / \$120.00 /
€103.00

DISCOUNT: Textbook

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 893

AUDIENCE: Senior undergraduate students in applied biology, biomedical engineering, or chemical engineering taking final year options in bioprocessing/biotechnology; Industrial practitioners working in biotechnology, pharmaceutical companies, food industries, and those trained in molecular biology and cell manipulation, who need to acquire knowledge on the principles of large scale processing of biological material
BIC CODES: TDCB, PHH, TGMF3, TC, TCB

THEMA CLASSIFICATION:

THEMATDC; THEMAPHH;
THEMATGMF; THEMAPHDF;
THEMAMQW; THEMATCB

Includes the most comprehensive and up-to-date coverage of engineering principles in the biochemical industry

KEY FEATURES

- Includes more than 350 problems that demonstrate how fundamental principles are applied in areas such as biofuels, bioplastics, bioremediation, tissue engineering, site-directed mutagenesis, recombinant protein production, and drug development, as well as for traditional microbial fermentation
- Provides in-depth treatment of fluid flow, turbulence, mixing, and impeller design, reflecting recent advances in our understanding of mixing processes and their importance in determining the performance of cell cultures
- Focuses on underlying scientific and engineering principles rather than on specific biotechnology applications, providing a sound basis for teaching bioprocess engineering
- Presents new or expanded coverage of such topics as enzyme kinetics, downstream processing, disposable reactors, genetic engineering, and the technology of fermentation

DESCRIPTION

Bioprocess Engineering Principles, Third Edition provides a solid introduction to bioprocess engineering for students with a limited engineering background. The book explains process analysis from an engineering perspective using worked examples and problems that relate to biological systems. Application of engineering concepts is illustrated in areas of modern biotechnology, such as recombinant protein production, bioremediation, biofuels, drug development, and tissue engineering, as well as microbial fermentation. With new and expanded material, this remains the book of choice for students seeking to move into bioprocess engineering



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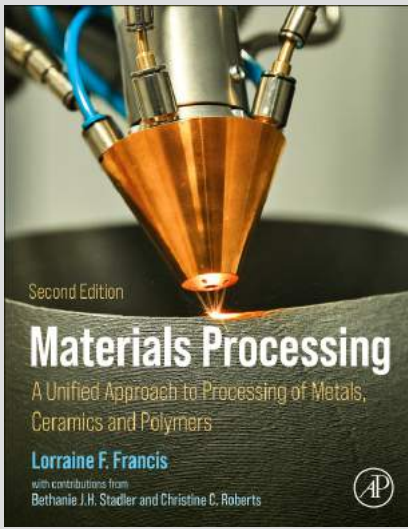
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ENGINEERING

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Materials Processing, 2e

A Unified Approach to Processing of Metals, Ceramics, and Polymers

Lorraine F. Francis, Ph.D, Distinguished University Teaching Professor and Professor of Chemical Engineering and Materials Science at the University of Minnesota, Minneapolis, MN, USA

ISBN: 9780128239087

PREVIOUS ISBN: 9780123851321

PUB DATE: Apr 01, 2024

LIST PRICE: £99.95 / \$130.00 / €113.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 619

ILLUSTRATIONS: 300 illustrations (100 in full color)

AUDIENCE: Junior/senior level undergraduate and first-year graduate students in Materials Science and Engineering

BIC CODES: TGM, TDCP, TDM, TDCQ

THEMA CLASSIFICATION: THEMATGM; THEMATDCQ; THEMATDCP

Brings the fundamental concepts of materials processing and highlights the overlap in scientific and engineering principles

KEY FEATURES

- Includes comprehensive coverage on the fundamental concepts of materials processing
- Provides coverage of metals, ceramics, and polymers in one text
- Presents examples of both standard and newer additive manufacturing methods throughout
- Gives students an overview on the methods that they will likely encounter in their careers

DESCRIPTION

Materials Processing: A Unified Approach to Processing of Metals, Ceramics and Polymers: Second Edition is the first textbook to bring the fundamental concepts of materials processing together in a unified approach that highlights the overlap in scientific and engineering principles. The book teaches students key principles involved in the processing of engineering materials, specifically metals, ceramics, and polymers, from starting or raw materials through to final functional forms. The book's self-contained approach is based on the state of matter most central to the shaping of the material: melt, solid, powder, dispersion and solution, and vapor.

This fully updated edition includes expanded coverage on additive manufacturing, as well as adding a new section on machining. The organization has been modified and a greater emphasis has been placed on the fundamentals of processing and manufacturing methods.



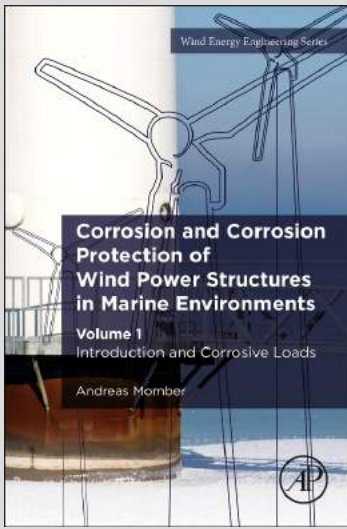
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ENGINEERING Materials

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Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments

Volume 1: Introduction and Corrosive Loads

Andreas Momber, Faculty of Geo-Resources and Materials Technology, University of Aachen, Germany

ISBN: 9780323857420
PUB DATE: Apr 01, 2024
LIST PRICE: £149.00 / \$190.00 / €167.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 720

ILLUSTRATIONS: 440 illustrations (95 in full color)

AUDIENCE: Material scientists, materials developers, corrosion engineers, maintenance engineers, civil engineers, steel work designers, mechanical engineers, marine engineers, chemists, chemical engineers, structural engineers, engineering consultants, surface technicians. Suitable for: 3rd/4th-year undergraduate, postgraduates, researchers, scientists, continuing education

BIC CODES: TGM

THEMA CLASSIFICATION: THEMATGM

Provides the first comprehensive review of corrosion and corrosion protection for wind power structures in offshore marine environments

KEY FEATURES

- Explores the literature between 1950 and 2020 and contains over 2000 references
- Offers the most complete monograph on the issue
- Covers all aspects of corrosion protection in detail, including coatings, cathodic protection, corrosion allowance, and constructive design, as well as maintenance and repair
- Delivers the most complete review on corrosion of metals in marine/offshore environments
- Focuses on all aspects of offshore wind power structures, including foundations, towers, internal sections, connection flanges, and transformation platforms

DESCRIPTION

Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments: Volume 1: Introduction and Corrosive Loads offers the first comprehensive review on corrosion and corrosion protection of offshore wind power structures. The book provides extensive discussion on corrosion phenomena and types in different marine corrosion zones, including the modeling of corrosion processes and interactions between corrosion and structural stability. The book addresses important design issues, namely materials selection relative to performance in marine environments, corrosion allowance, and constructive design. Active and passive corrosion protection measures are emphasized, with special sections on cathodic corrosion protection and the use of protective coatings.

Seawater related issues associated with cathodic protection, such as calcareous deposit formation, hydrogen formation and fouling, are discussed. With respect to protective coatings, the book considers for the first time complete loading scenarios, including corrosive loads, mechanical loads, and special loads, and covers a wide range of coating materials. Problems associated with fouling and bacterial-induced corrosion are extensively reviewed. The book closes with a chapter on recent developments in maintenance strategies, inspection techniques, and repair technologies. The book is of special interest to materials scientists, materials developers, corrosion engineers, maintenance engineers, civil engineers, steel work designers, mechanical engineers, marine engineers.



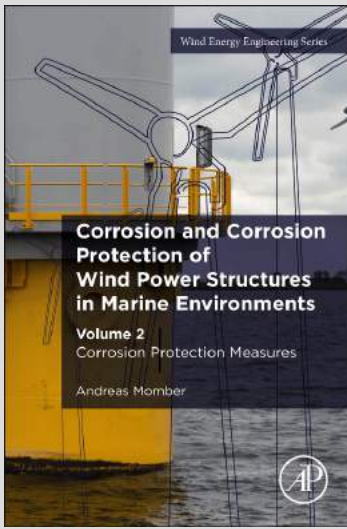
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Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments

Volume 2: Corrosion Protection Measures

Andreas Momber, Faculty of Geo-Resources and Materials Technology, University of Aachen, Germany

ISBN: 9780323857444
PUB DATE: Apr 01, 2024
LIST PRICE: £149.00 / \$190.00 / €167.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 699

ILLUSTRATIONS: 435 illustrations (85 in full color)

AUDIENCE: Material scientists, materials developers, corrosion engineers, maintenance engineers, civil engineers, steel work designers, mechanical engineers, marine engineers, chemists, chemical engineers, structural engineers, engineering consultants, surface technicians. Suitable for: 3rd/4th-year undergraduate, postgraduates, researchers, scientists, continuing education

BIC CODES: TGM

THEMA CLASSIFICATION: THEMATGM

Provides the first comprehensive review of corrosion and corrosion protection for wind power structures in offshore marine environments

KEY FEATURES

- Explores the literature between 1950 and 2020 and contains over 2000 references
- Offers the most complete monograph on the issue
- Covers all aspects of corrosion protection in detail, including coatings, cathodic protection, corrosion allowance, constructive design, as well as maintenance and repair
- Delivers the most complete review on corrosion of metals in marine/offshore environments
- Focuses on all aspects of offshore wind power structures, namely foundations, towers, internal sections, connection flanges, and transformation platforms

DESCRIPTION

Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments: Volume 2: Corrosion Protection Measures offers the first comprehensive review on corrosion and corrosion protection of offshore wind power structures. The book extensively discusses corrosion phenomena and corrosion types in different marine corrosion zones, including the modeling of corrosion processes and interactions between corrosion and structural stability. The book addresses important design issues, namely materials selection relevant to their performance in marine environments, corrosion allowance, and constructive design. Active and passive corrosion protection measures are emphasized, with special sections on cathodic corrosion protection and the use of protective coatings.

Seawater related issues associated with cathodic protection, such as calcareous deposit formation, hydrogen formation, and fouling, are discussed. With respect to protective coatings, the book considers, for the first time, complete loading scenarios, including corrosive loads, mechanical loads, and special loads, and covers a wide range of coating materials. Problems associated with fouling and bacterial-induced corrosion are extensively reviewed. The book closes with a chapter on recent developments in maintenance strategies, inspection techniques, and repair technologies. The book will be of special interest to materials scientists, materials developers, corrosion engineers, maintenance engineers, civil engineers, steel work designers, mechanical engineers, marine engineers, chemists, and coating specialists.



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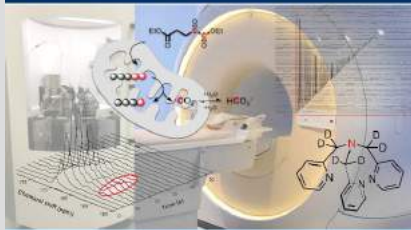


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The Chemistry of Hyperpolarized Magnetic Resonance Probes



Edited by
Eul Hyun Suh, Zoltan Kovacs



The Chemistry of Hyperpolarized Magnetic Resonance Probes, Vol 12

Edited by : **Eul Hyun Suh**, Assistant Professor, University of North Texas Health Science Centre (UNTHSC), Dallas, TX, USA and **Zoltan Kovacs**, Associate Professor, Advanced Imaging Research Center, University of Texas Southwestern (UTSW), Dallas, TX, USA

ISBN: 9780323918428
PUB DATE: Apr 01, 2024
LIST PRICE: £123.00 / \$160.00 /
€140.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.125w x 9.25h
PAGES: c. 186

AUDIENCE: Researchers working in nuclear magnetic resonance (NMR) and magnetic resonance imaging (MRI), including chemists, biochemists, and other scientists involved in biomedical research

BIC CODES: PNFS, PHK
THEMA CLASSIFICATION:
THEMAPNFS; THEMAPHK

Unique reference on the Chemistry of Hyperpolarized Magnetic Resonance Probes

A Volume in the *Advances in Magnetic Resonance Technology and Applications* Series

KEY FEATURES

- Helps readers understand the structural features that determine the properties of HP-probes, such as chemical shift and relaxation times
- Aids readers in selecting stable isotope labeled probes for hyperpolarized NMR/MRI applications
- Teaches readers how to use the most appropriate synthetic methodology for the labeled probes
- Covers how to find the most suitable polarization technique (DNP, PHIP etc.) for the probe

DESCRIPTION

The Chemistry of Hyperpolarized Magnetic Resonance Probes, Volume Seven focuses on the chemical aspects of hyperpolarized NMR/MRI technology, with synthesis and characterizations of labeled compounds discussed from a practical point-of-view. A brief overview of the various hyperpolarization techniques are given, with the optimization of hyperpolarization conditions and the determination of critical parameters such as polarization level and T1 relaxation values described. A practical guide on the in vivo applications of hyperpolarized compounds in small animals is also included.



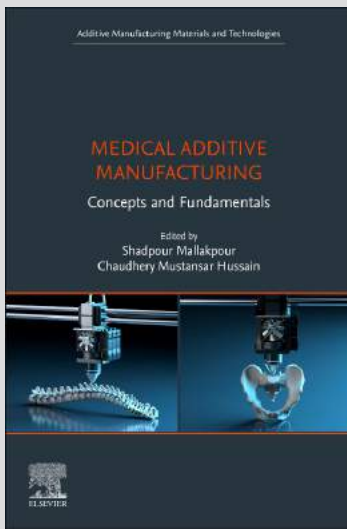
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Medical Additive Manufacturing

Concepts and Fundamentals

Edited by : **Shadpour Mallakpour**, Professor Shadpour Mallakpour, PhD, Organic polymer chemist, Department of Chemistry, Isfahan University of Technology, Isfahan, Iran and **Chaudhery Mustansar Hussain**, Adjunct Professor and Lab Director, Department of Chemistry and EVSC, New Jersey Institute of Technology, Newark, NJ, USA

ISBN: 9780323953832
PUB DATE: Apr 01, 2024
LIST PRICE: £185.00 / \$240.00 / €210.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 558
AUDIENCE: Academic researchers and grad students in mechanical engineering, biomedical engineering, manufacturing, and materials science, Professionals in these same areas
BIC CODES: PHH
THEMA CLASSIFICATION: THEMAPHH

Provides an overview of the latest research in the field of additively manufactured medical materials

A Volume in the *Additive Manufacturing Materials and Technologies Series*

KEY FEATURES

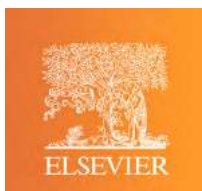
- Synthesizes the latest research in medical additive manufacturing
- Outlines basic additive manufacturing concepts, the different types of manufacturing, optimal material selection, design production and configuration, and more
- Discusses cutting-edge applications in drug delivery, tissue engineering, biosensor devices, electrically conductive polymers, green catalysis, and more

DESCRIPTION

Medical Additive Manufacturing: Concepts and Fundamentals provides an overview of the latest research in the field of additively manufactured medical materials. It starts with a broad overview of the current state of medical additive manufacturing and then dives into cutting-edge topics such as medical imaging technologies for additive manufacturing and computer-aided design principles for anatomic modeling. The chapters discuss the state of additive manufacturing in an array of medical fields such as radiology, tissue engineering, nuclear medicine, orthopedics, surgery, cardiology, neurology, optometry, obstetrics, and veterinary medicine. This book concludes with chapters discussing regulatory considerations for additive manufacturing in hospitals and what the future holds for the field.



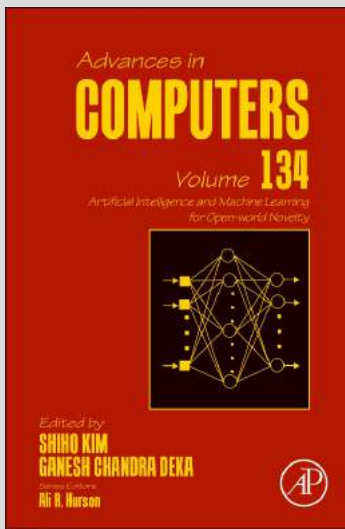
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ENGINEERING Mechanical

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Artificial Intelligence and Machine Learning for Open-world Novelty, Vol 134

Edited by : **Ganesh Chandra Deka**, Ministry of Skill Development and Entrepreneurship, New Delhi, India and **Shiho Kim**, School of Integrated Technology, Yonsei University, Seoul, Korea

ISBN: 9780323999281
PUB DATE: Apr 01, 2024
LIST PRICE: £126.00 / \$182.00 / €130.00
DISCOUNT: Serial
FORMAT: Hardback
TRIM: 6.00w x 9.00h
PAGES: c. 288
AUDIENCE: Researchers in high performance computer areas, hardware manufacturers, educational programs in physics and scientific computation and in computer science
BIC CODES: UMZ, PB
THEMA CLASSIFICATION: THEMAUM; THEMABP

Latest release in a series offering detailed coverage of innovations in computer hardware, software, theory, design and applications

KEY FEATURES

- Contains novel subject matter that is relevant to computer science
- Includes the expertise of contributing authors
- Presents an easy to comprehend writing style

DESCRIPTION

Artificial Intelligence and Machine Learning for Open-world Novelty, Volume 134 in the *Advances in Computers* series presents innovations in computer hardware, software, theory, design and applications, with this updated volume including new chapters on AI and Machine Learning for Real-world problems, Graph Neural Network for learning complex problems, Adaptive Software platform architecture for Aerial Vehicle Safety Levels in real-world applications, OODA Loop for Learning Open-world Novelty Problems, Privacy-Aware Crowd Counting Methods for Real-World Environment, AI and Machine Learning for 3D Computer Vision Applications in Open-world, and PIM Hardware accelerators for real-world problems.

Other sections cover Irregular Situations in Real-World Intelligent Systems, Offline Reinforcement Learning Methods for Real-world Problems, Addressing Uncertainty Challenges for Autonomous Driving in Real-World Environments, and more.



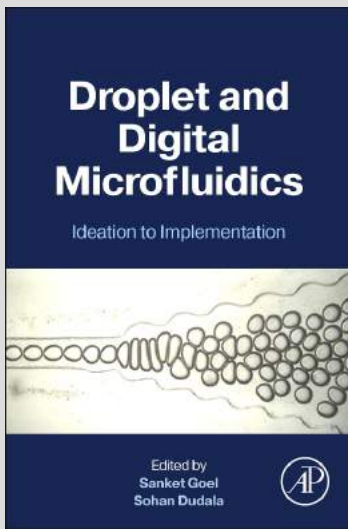
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SERIALS Computer Science

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Droplet and Digital Microfluidics

Ideation to Implementation

Edited by : **Sanket Goel**, Birla Institute of Technology (BITS) BITS-Pilani, Hyderabad, India and **Sohan Dudala**

ISBN: 9780443154164
PUB DATE: Apr 01, 2024
LIST PRICE: £170.00 / \$220.00 / €195.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 260
AUDIENCE: Graduate students and researchers interested in microfluidics and MEMS
BIC CODES: TGB
THEMA CLASSIFICATION: THEMATGB

A detailed introduction to the dynamics of droplet and digital microfluidics featuring coverage of new methods and applications.

KEY FEATURES

- Provides step-by-step fabrication, testing, and characterization instructions in each chapter to support implementation
- Includes explanations of applications and methods in biological and chemical settings
- Describes the path to automation of digital and droplet microfluidic platforms

DESCRIPTION

Droplet and Digital Microfluidics: Ideation to Implementation is a detailed introduction to the dynamics of droplet and digital microfluidics, also featuring coverage of new methods and applications. The explosion of applications of microelectromechanical systems (MEMS) in recent years has driven demand for expertise and innovation in fluid flow in the microchannels they contain. In this book, detailed descriptions of methods for biological and chemical applications of microfluidics are provided, along with supporting foundational knowledge. In addition, the principles of droplet and digital microfluidics are explained, along with their different applications and governing physics.

New additions to the technological knowledgebase that enable advances in droplet and digital microfluidics include machine learning and exciting future avenues for research.



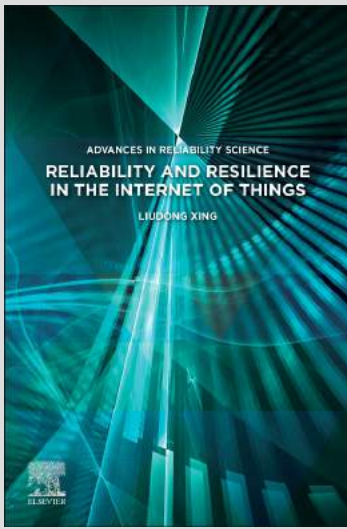
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Reliability and Resilience in the Internet of Things

Liudong Xing, Professor, Department of Electrical and Computer Engineering, University of Massachusetts, Dartmouth, USA

ISBN: 9780443156106
PUB DATE: Apr 01, 2024
LIST PRICE: £170.00 / \$220.00 / €195.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 279
AUDIENCE: Researchers in academia and industry interested in smart factories and industry 4.0, Sustainability consultants in the textiles industry
BIC CODES: TGB
THEMA CLASSIFICATION: THEMATGB

Covers the latest advances in reliability modelling, analysis, and design techniques for internet of things systems

A Volume in the *Advances in Reliability Science Series*

KEY FEATURES

- Addresses several IoT applications with case studies
- Explores solutions in the contexts of IoT layered architecture as well as cross-layer interactions and dependencies
- Explains fundamental aspects of IoT infrastructure in terms of reliability and resilience

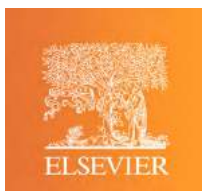
DESCRIPTION

Reliability and Resilience in the Internet of Things explains the latest advances in reliability and resilience modeling, analysis, and design techniques for IoT systems. Over the past decade, IoT has developed rapidly, and it now spans diverse application domains such as healthcare, home automation, smart manufacture, smart ocean, and smart agriculture. Due to the critical nature of these IoT applications, it is imperative that these systems operate reliably throughout the intended mission time. This timely book provides state-of-the-art coverage on IoT reliability and resilience modeling, analysis, and design methods and solutions to help prevent costly malfunctions.

From the viewpoint of engineers, researchers, and developers, reliability analysis and resilience design are key to the deployment and operation of IoT systems in critical applications, and this book contains the best advice on the subject available. It is a key resource for researchers in academia and industry interested in smart IoT systems and industry 4.0.



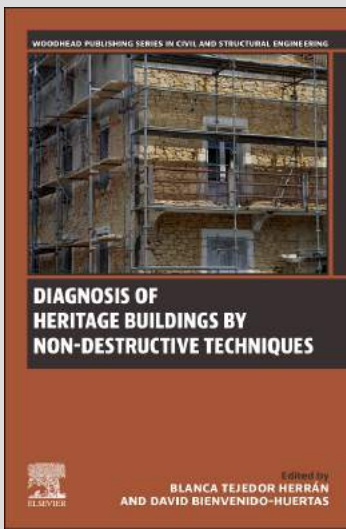
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ENGINEERING Mechanical

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Diagnosis of Heritage Buildings by Non-Destructive Techniques

Edited by : **Blanca Tejedor Herrán**, Assistant Professor, Department of Project and Construction Engineering, Universitat Politècnica de Catalunya, Barcelona, Spain and **David Bienvenido-Huertas**, Assistant Professor, Department of Building Construction, University of Granada, Granada, Spain

ISBN: 9780443160011
PUB DATE: Apr 01, 2024
LIST PRICE: £190.00 / \$250.00 / €220.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 428

AUDIENCE: Academics and researchers, postgraduate and undergraduate students in the fields of civil/structural/construction/environmental/sustainability/chemical/materials/heritage conservation engineering and architecture, as well as building management and technological innovation in construction, R&D specialists in computer science applications for civil engineering and architecture; professional engineers and architects, cultural heritage conservators and curators, infrastructure legislators, companies pioneering Energy Efficiency as a Service (EEaaS).

BIC CODES: TN, TGM, AMCR, TNK, TTBL, TNKX, TNC, TBC, TNCB, PNFS, TBJ, UYQ

THEMA CLASSIFICATION:
THEMATN; THEMATGM;
THEMAAMCR; THEMATNC;
THEMATNK; THEMAAM; THEMATBC;
THEMAPNFS; THEMAPBW;
THEMAUYQ; THEMATNKX;
THEMAKNJ; THEMATTBL



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A seamless examination of non-destructive testing protocols for heritage buildings from a theoretical standpoint through their practical implementation

A Volume in the *Woodhead Publishing Series in Civil and Structural Engineering Series*

KEY FEATURES

- Helps readers to easily identify the latest advances in non-destructive testing by subdividing the content into sections specific to each assessment approach
- Explores the integration of different NDT methodologies, facilitating the interoperability of traditional and advanced technologies
- Presents case studies based on real built heritage to show how to correctly implement the measurement techniques described, and to interpret the results

DESCRIPTION

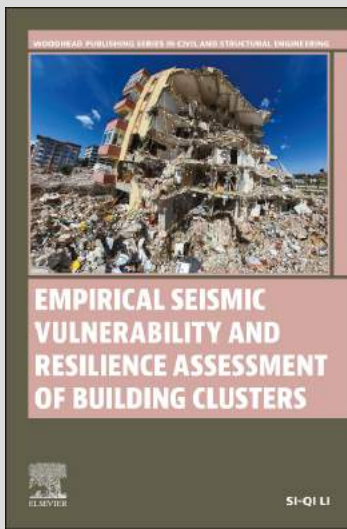
Diagnosis of Heritage Buildings by Non-Destructive Techniques offers an up-to-date overview of state-of-the-art knowledge by collating specialized studies written by an international group of experts in the field, while also examining the value of these non-intrusive methods through a number of real-life case studies which prove NDT techniques' global relevance. The volume is an invaluable reference resource for students, researchers, and practitioners alike.

Besides their notable historical and cultural significance, heritage buildings crucially contribute to the economy of those countries that rely heavily on the tourism industry. Investigation and monitoring of the origins of deterioration and damage are therefore key to the preservation of architectural heritage.

ENGINEERING Civil

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Empirical Seismic Vulnerability and Resilience Assessment of Building Clusters

Si-Qi Li, Associate Professor, School of Civil Engineering, Heilongjiang University, Harbin Heilongjiang, China

ISBN: 9780443216381
PUB DATE: Apr 01, 2024
LIST PRICE: £180.00 / \$235.00 / €205.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 353
AUDIENCE: Senior undergraduates, graduate students, academic researchers, and practicing engineers in civil and seismic engineering
BIC CODES: TN
THEMA CLASSIFICATION: THEMATN

Analyzes the characteristics of the vulnerability of various engineering structures to seismic damage and provides measures and methods to improve the vulnerability of various structures

A Volume in the *Woodhead Publishing Series in Civil and Structural Engineering Series*

KEY FEATURES

- Increases engineers' theoretical and practical knowledge of field investigation to help improve their efficiency and the quality of future work
- Includes the analysis of hundreds of earthquake field survey data
- Provides a vulnerability assessment of diversified structural experience

DESCRIPTION

Empirical Seismic Vulnerability and Resilience Assessment of Building Clusters analyzes the seismic vulnerability analysis of four types of structures and studies and discusses the evaluation of structural damage using risk analysis and shaking table test methods. It does not consider the contribution of typical empirical structural seismic damage data to structural vulnerability assessment and prediction. It is recognized that the impact of earthquakes on large-scale areas is extensive, not only on a building but also on a group of buildings. The book is based on the research background of typical seismic damage characteristics of 11 types of engineering structures.

It analyzes the characteristics of the vulnerability of various structures and provides measures and methods to improve the vulnerability of various structures. Combined with probability risk, reliability, machine learning, and other means, vulnerability prediction and evaluation models are established, respectively, and the rationality of the models is verified by hundreds of onsite earthquake damage survey data.



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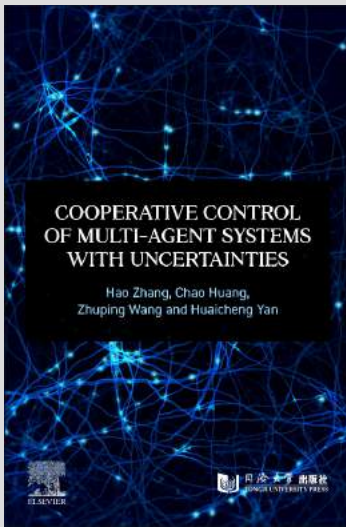


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Cooperative Control of Multi-Agent Systems with Uncertainties



Hao Zhang, Professor College of Electronic and Information Engineering, Tongji University Press), Director, International Office, Tongji University Press, Shanghai, China.; **Chao Huang**, Associate Professor, College of Electronic and Information Engineering, Tongji University Press), Director, International Office, Tongji University Press, Shanghai, China.; **Zhuping Wang**, Professor, College of Electronic and Information Engineering, Tongji University Press), Director, International Office, Tongji University Press, Shanghai, China. and **Huaicheng Yan**, Professor, Key Laboratory of Advanced Control and Optimization for Chemical Process of Ministry of Education, East China University of Science and Technology, China

ISBN: 9780443218590
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 265

AUDIENCE: Academic faculty and graduate students in the area of systems and control, especially researchers who are interested in cooperative control of multi-agent systems. Engineers in automation, robotics, aerospace and other industries. Graduate students majoring in control science and engineering, this book can be used in their graduate courses or as their self-study textbooks. Those interested in engineering and military applications

BIC CODES: TGB

THEMA CLASSIFICATION:
THEMATGB

Covers the problems a multi-agent cooperative control system might face and provides solutions to overcome those issues

KEY FEATURES

- Bridges the gap for engineers and technicians in the automation industry, including theory and practice
- Provides a general framework for dealing with various uncertainties in multi-agent cooperative control problems
- Contains contributions surrounding the development of multi-agent systems control theory

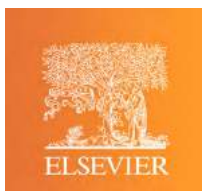
DESCRIPTION

Cooperative Control of Multi-Agent Systems with Uncertainties proposes a hierarchical design framework that places uncertainties related to system models in the decentralized control layer (bottom layer) and the ones related to the communication (as well as physical interaction) between the agents in the distributed decision-making layer (top layer). The book shows that the two layers meet separation principles under certain conditions so that through the two-layer design framework any challenges can be resolved independently and so that design complexities will not increase with the level of uncertainties.

In addition, in order to solve the problem of energy limitation of agents, the book also studies the event-driven cooperative control of multi-agent systems, which can effectively reduce energy consumption of agents and increase their operational lifespan.



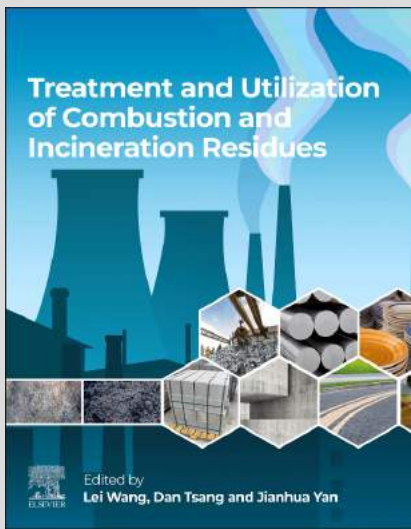
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ENGINEERING Mechanical

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Treatment and Utilization of Combustion and Incineration Residues

Edited by : **Lei Wang**, PhD, State Key Laboratory of Clean Energy Utilization, Zhejiang University; **Dan Tsang**, Professor, The Hong Kong Polytechnic University and Pao Yue-Kong Chair Professor, Zhejiang University, Hong Kong and **Jianhua Yan**, Vice President, Zhejiang University, China

ISBN: 9780443215360
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 493

AUDIENCE: Scientists, engineers, researchers and undergraduate and graduate students interested in environmental science, environmental engineering, energy, environmental chemistry, chemical engineering, industrial and municipal solid waste management, pollution, and waste-to-energy

BIC CODES: RN, TQ, RBGB, TQSR

THEMA CLASSIFICATION:

THEMAPNC; THEMATQ;
THEMARNH; THEMARBGB;
THEMATVB; THEMATQSR

Introduces the state-of-the-art of treatment and utilization technologies for various combustion and incineration residues

KEY FEATURES

- Provides systematical classification and introduction of combustion/incineration solid residues
- Introduces the detoxification and purification technologies of hazardous combustion/incineration ashes and slags
- Highlights the treatment and recycling approaches of combustion and incineration residues in cement clinker production and sustainable construction materials manufacture
- Provides systematical classification and introduction of combustion/incineration solid residues
- Introduces the detoxification and purification technologies of hazardous combustion/incineration ashes and slags
- Highlights the treatment and recycling approaches of combustion and incineration residues in cement clinker production and sustainable construction materials manufacture

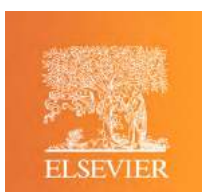
DESCRIPTION

Treatment and Utilization of Combustion and Incineration Residues introduces state-of-art strategies for combustion and incineration solid residue management and utilization. The book also reviews current technologies for pollutant removal and control of combustion and incineration residues. Recycling ashes and slags in sustainable construction materials are also evaluated on environmental impacts and engineering values, and the use of different ashes and slags in cement clinker production is classified based on the sources and properties of the residues. In addition, the recovery of valuable metals and inorganic elements is also discussed.

Finally, the book examines the latest understanding of reaction mechanisms of various treatment technologies, the future design of treatment technologies, and the actualization of sustainable management for combustion/incineration residues.



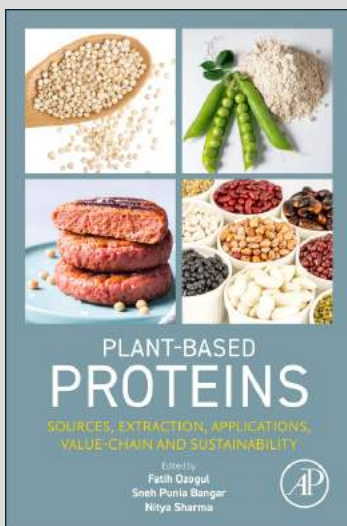
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EARTH & ENVIRONMENT Environmental Management

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Plant-Based Proteins

Sources, Extraction, Applications, Value-chain and Sustainability

Edited by : **Fatih Ozogul**, Professor, Department of Seafood Processing Technology, Cukurova University, Balcali, Turkey; **Sneh Punia Bangar**, Postdoctoral Researcher, Clemson University, South California, USA and **Nitya Sharma**

ISBN: 9780443133701
PUB DATE: Sep 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 372

AUDIENCE: Academics and researchers (food science and engineering, food technologists, chemists, nutritionists, pharmacists, biotechnologists, etc.), through the industrial engineers and technicians (food engineers, food plant managers, new product and processing developers/managers, in food packaging and preservation, food hazards, food hygiene and safety, food preservation, food quality control, etc.) and to the persons in general with interest in all these fields united by a common denominator: plant-based proteins as a clean label ingredient for food industries. Students at different levels (B.Sc., M.Sc., and PhD.). Graduate, postgraduate and postdoc students conducting research studies in the plant-based proteins/plant-based meat analogues and undergraduate students who want to specialize or initiate a research career in one of the areas covered by this book. Moreover, it will be used by researchers and industry sectors – functional, nutraceutical (dietary supplements and food additives), cosmetic and pharmaceutical industries

BIC CODES: TDCT

THEMA CLASSIFICATION: THEMATDCT



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Provides the latest findings in composition, quality characteristics, and comparative analysis of plant and animal-based proteins

KEY FEATURES

- Explores the utilization of protein as clean label ingredients
- Includes extraction, composition, quality
- Discusses industrial applications and health-promoting benefits
- Covers safety, toxicology, and shelf-life
- Provides comparative analysis of plant vs. animal-based proteins

DESCRIPTION

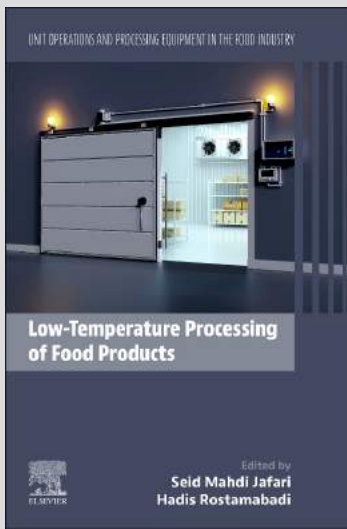
Plant-Based Proteins: Sources, Extraction, Applications, Value-chain and Sustainability provides the latest findings and most recent approaches and trends on clean label proteins. Divided in six sections, including Cereal-based proteins, Pseudocereal-based proteins, Protein from pulses, Protein from seeds and nuts, Protein from fruits and vegetables, and Plant-based proteins (Value-chain and sustainability), the book extensively covers the composition, quality characteristics, and comparative analysis of plant and animal-based proteins and their potential industrial applications.

This is a comprehensive reference that offers the food industry and researchers the actual state-of-the-art, necessary recent insights, and the potential uses of plant proteins.

FOOD SCIENCE, TECHNOLOGY & NUTRITION

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Low-Temperature Processing of Food Products

Unit Operations and Processing Equipment in the Food Industry

Seid Mahdi Jafari, Professor, Department of Food Materials and Process Design Engineering, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran and **Hadis Rostamabadi**, PhD, Isfahan University of Medical Sciences (IUMS)

ISBN: 9780128187333
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$250.00 / €180.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 405
AUDIENCE: Technologists, researchers, investors, government officials, and all the people concerned with food processing operations, undergraduate and graduate students in Food Science and Technology
BIC CODES: TDCT
THEMA CLASSIFICATION: THEMATDCT

Provides information on specific low-temperature processes and how they relate to the quality and safety of the products

KEY FEATURES

- Thoroughly explores novel applications of low-temperature unit operations in food industries
- Brings innovative freezing technologies
- Clarifies phase change of water, freezing processes, mass and heat transfer phenomena

DESCRIPTION

Low-Temperature Processing of Food Products, Volume Seven in the *Unit Operations and Processing Equipment in the Food Industry* series, explains the processing operations and equipment necessary for low-temperature processing of different food products. These processes are very important for achieving favorable sensory properties and energy usage. Divided in four sections, "Basics of low-temperature processing", "Different types of cooling and freezing systems", "Application of freezing in the food industry", and "Design, control and efficiency of freezers", all chapters emphasize basic texts relating to experimental, theoretical, computational, and/or applications of food engineering principles and relevant processing equipment to low-temperature unit operations.

Written by experts in the field of food engineering, in a simple and dynamic way, this book targets industrial Engineers working in the field of food processing and within food factories to make them more familiar with the particular food processing operations and equipment.



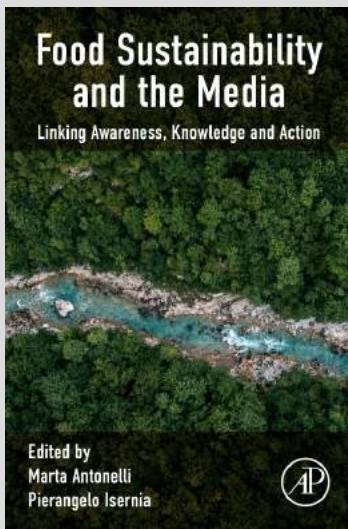
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Food Sustainability and the Media

Linking Awareness, Knowledge and Action

Edited by : **Marta Antonelli**, Senior Research Associate, Euro-Mediterranean Centre on Climate Change, Rome, Italy and **Pierangelo Isernia**, Department of Social, Political and Cognitive Sciences, University of Siena, Siena, Italy

ISBN: 9780323912273
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €131.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 219

AUDIENCE: Specialists in the field of food security, sustainability and media studies and to private and public actors working in these areas. It is especially suited for adoption in both graduate and postgraduate courses on food security, sustainability, media and communication studies

BIC CODES: TDCT, KJS, RNFF, LND, LNKF

THEMA CLASSIFICATION:

THEMATDCT; THEMAKJS;

THEMAJW; THEMALNDB;

THEMALNKF

Explore the roles the media plays in raising awareness, spurring action, and increasing understanding about food security and global sustainability issues

KEY FEATURES

- Addresses both conceptual and theoretical issues
- Presents a diversified set of methodological perspectives, theoretical backgrounds and issues
- Provides a conclusion that ties the content together, exploring the role of the media and food sustainability in Europe and the U.S.

DESCRIPTION

Food Sustainability and the Media: Linking Awareness, Knowledge and Action is the first book to explore the roles that the media plays in raising awareness, spurring action, and increasing understanding about food security and global sustainability issues. The book addresses the means of leveraging traditional and new media to advance food and sustainability discourse by linking awareness, knowledge, and action. The book links sustainability and food security in media communication to address different topics, including the way climate change is framed by the media, key factors of success and failure in NGOs, public and corporate communication, and climate change denial.



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Biodegradable and Edible Food Packaging

Trends and Technologies



Edited by : **Khalid Bashir**, Assistant Professor Department of Food Technology, Jamia Hamdard Hamdard Nagar, New Delhi, India; **Kulsum Jan**, Assistant Professor, Department of Food Technology, Jamia Hamdard, Hamdard Nagar, New Delhi, India; **Shumaila Jan**, Assistant Professor, Department of Food Science and Technology, National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Kundli, Sonapat Haryana, India; **Ab Lateef Khan**, Postdoctoral Research Associate, Institute for Personalized Medicine, School of Biomedical Engineering, Med-X Institute, Shanghai Jiao Tong University, China and **David Julian McClements**, Distinguished Professor, Department of Food Science, University of Massachusetts, Amherst, USA

ISBN: 9780323956246
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 491

AUDIENCE: Researchers, academicians, industry people and students opting for the development of edible and biodegradable films, Bachelors, Masters and Ph.D research scholars, industry people and researchers associated with food packaging

BIC CODES: TDCT

THEMA CLASSIFICATION: THEMATDCT

Serves as a comprehensive source of information on the development of edible and biodegradable films

KEY FEATURES

- Presents strategies and techniques for the development of new and innovative packaging materials
- Brings information regarding emerging trends like the exploration of underutilized sources and the use of agricultural and industrial waste for the production of packaging material
- Covers the importance of designing and implementing food packaging programs and nanotechnology, along with limitations and safety issues
- Provides knowledge on the interaction of constituents like starch, protein, cellulose, etc.

DESCRIPTION

Biodegradable and Edible Food Packaging: Trends and Technologies presents the concept, status and recent advancements of Biodegradable and Edible packaging materials. The book offers broad and available information regarding principles of food packaging and its applications in different area of food and non-food. Chapters bring a detailed overview of the interaction of constituents and properties like physiochemical, mechanical, microbiological and engineering. The book also serves latest information regarding the packaging requirements of almost all food groups, including knowledge regarding biodegradable and edible food packaging materials that reduce environmental pollution.

This is a solid reference book that helps readers understand different benefits of using biodegradable and edible films and their development and suitability with various foods.



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Intelligent Packaging

Current Technologies and Applications

Monica Trif, PhD, Centre for innovative process engineering GmbH Germany and **Sneh Punia Bangar**, Postdoctoral Researcher, Clemson University, South California, USA

ISBN: 9780443153884
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 372

AUDIENCE: Researchers, academics and other professionals actively working, developing research, promoting scientific activities and interested in the development of research, teaching, and lecturing in Food Science and Technology that include the fields of Food Quality and Safety (but not limited to), Microbiology, Chemistry, Physics, Biology, and Engineering. The secondary market is composed of undergraduate, master, PhD and post-doctoral students as well as professionals, technicians, staff members and researchers in related areas with interest in develop professional, research, and lecturing activities related to Food Science and Technology and related knowledge presented in this Book

BIC CODES: MMFM, TDCT

THEMA CLASSIFICATION:

THEMAMKFM; THEMATDCT



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Provides comprehensive information about novel and modern technologies applied in the intelligent packaging developments

A Volume in the *Developments in Food Quality and Safety Series*

KEY FEATURES

- Provides fundamentals and the latest developments for emerging technologies in food packaging
- Covers the main novel and modern intelligent and sensors technologies and strategies to obtain intelligent packaging
- Explores utilization, optimization, and the development of technologies per se on the developments of intelligent packaging

DESCRIPTION

Intelligent Packaging: Current Technologies and Applications, Volume Six in the *Developments in Food Quality and Safety* series is the most up-to-date resource on topics such as Advances in the analysis of toxic compounds and control of food poisoning; Food fraud, traceability and authenticity; Revalorization of agrifood industry; Natural antimicrobial compounds and application to improve the preservation of food; Non-thermal processing technologies in the food industry; Nanotechnology in food production; and Intelligent packaging and sensors. This updated volume covers intelligent packaging by discussing the aspects of emerging technologies and strategies to obtain such packaging relevant to the development of traceable food products.

Topics such as indicators, sensors, tracing devices, and intelligent packaging used in various food products, such as dairy, meat, fruits and vegetables are also explored. The series is edited by Dr. José Manuel Lorenzo and authored by a team of global experts in the fields of Food Quality and Safety, providing comprehensive knowledge to food industry personals and scientists.

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Improving and Tailoring Enzymes for Food Quality and Functionality, 2e

Edited by : **Rickey Y. Yada**, Dean, Faculty of Land and Food Systems, University of British Columbia, Vancouver, BC, Canada and **Derek R. Dee**, Assistant Professor in the Food, Nutrition and Health Program, University of British Columbia, Canada

ISBN: 9780443154379

PREVIOUS ISBN: 9781782422853

PUB DATE: Apr 01, 2024

LIST PRICE: £208.00 / \$275.00 / €240.00

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 6.00w x 9.00h

PAGES: c. 260

AUDIENCE: R&D managers in the food industry, food engineering professionals, Postgraduate students and academic researchers in enzymes and food processing

BIC CODES: TDCT

THEMA CLASSIFICATION: THEMATDCT

Provides the latest information on enzymes and their applications in the food industry

A Volume in the *Woodhead Publishing Series in Food Science, Technology and Nutrition Series*

KEY FEATURES

- Thoroughly updated revision covering a broad range of topics related to enzymes and their use in the food industry
- Presents both the fundamental theory and recent examples from the literature, including the fundamentals of protein folding and enzyme catalysis, the preparation of enzymes from natural and recombinant sources, immobilizing enzymes, and a range of specific food applications
- Covers new research directions in enzymes, thus helping those trying to solve a technical issue or develop a new product

DESCRIPTION

Improving and Tailoring Enzymes for Food Quality and Functionality, Second Edition covers the most relevant information demanded in the production, engineering, and application of enzymes. The title is very detailed and an important cross-discipline resource that merges academia and industry. This totally revised new edition covers a broad range of topics related to enzymes and their use in food, presenting both the fundamental theory and practical application, updated with interesting novel information on biosensors, waste, valorization, up-cycling and engineering perspectives, besides an increased focus on sustainability.



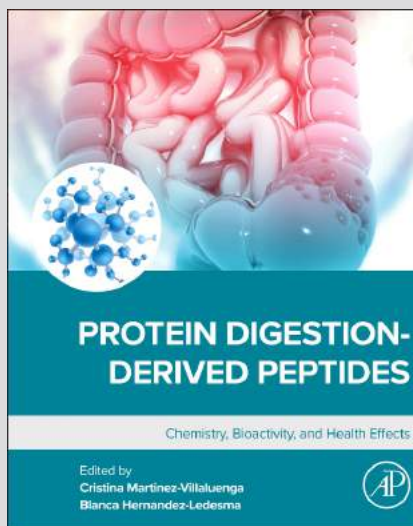
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Protein Digestion-Derived Peptides

Chemistry, Bioactivity, and Health Effects

Edited by : **Cristina Martínez-Villaluenga**, Research Scientist, Institute of Food Science, Technology and Nutrition, Spanish National Research Council, Madrid, Spain and **Blanca Hernández-Ledesma**, Tenured Scientist, Instituto de Investigación en Ciencias de la Alimentación, Spain

ISBN: 9780443191411
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 403
AUDIENCE: Nutrition researchers, Food Scientists, Pharmaceutical Scientists
BIC CODES: TV
THEMA CLASSIFICATION: THEMATV

Addresses the impact that gastrointestinal digestion can have on the proteins in our diet

KEY FEATURES

- Includes applications, literature reviews, recent developments, and methods
- Expands coverage on in vitro and in vivo approaches to simulate gastrointestinal digestion of food proteins and absorption models to evaluate the bioaccessibility and bioavailability of released peptides
- Offers an overview of the main bioactivities of peptides released during the gastrointestinal digestion of food proteins
- Highlights the mechanisms of action and health benefits of bioactive peptides released during gastrointestinal digestion

DESCRIPTION

Protein Digestion-Derived Peptides: Chemistry, Bioactivity, and Health Effects presents the latest international advances in fundamental and applied research on the impact of gastrointestinal digestion on the release of bioactive peptides from food sources. This book covers the fundamentals and applications of gastrointestinal digestion and absorption models as well as the impact of food matrices, their components and protein characteristics, and peptide bioaccessibility and bioavailability released during digestion. Developed for nutrition researchers, food scientists, and pharmaceutical scientists, this book is sure to be a welcomed for those who wish to understand the impact of peptides on chronic disease.



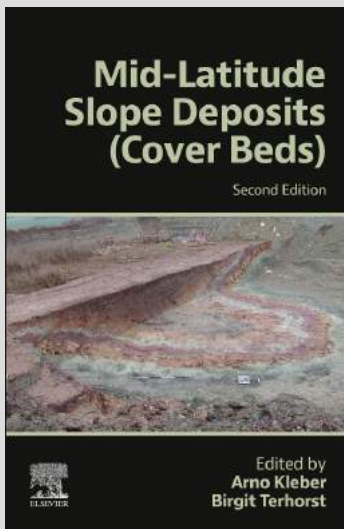
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Mid-Latitude Slope Deposits (Cover Beds), 2e

Edited by : **Arno Kleber**, Professor and Chair of Physical Geography, Technical University of Dresden, Germany and **Birgit Terhorst**, Professor of Physical Geography and Soil Science at the Technical University of Dresden, Germany

ISBN: 9780323960038

PREVIOUS ISBN: 9780444531186

PUB DATE: Apr 01, 2024

LIST PRICE: £134.00 / \$175.00 / €155.00

DISCOUNT: Reference

FORMAT: Hardback

TRIM: 6.00w x 9.00h

PAGES: c. 335

AUDIENCE: Academics in Geomorphology (pure and applied), Sedimentology, Quaternary Sciences, Pedology, Hydrology, etc, Petroleum geologists, paleontologists, soil scientists

BIC CODES: KCN, RN

THEMA CLASSIFICATION:

THEMAKCVG; THEMATQ

A detailed overview of facies-oriented approaches to slope-deposit research, delivering deep insight into the wide field of research on cover beds

KEY FEATURES

- Provides a unique compilation covering several decades of slope-deposit research with a facies-oriented approach
- Covers new fields of research developed since the first edition on interbedded/intercalated loess-like slope deposits and the provenance of cover-bed eolian matter
- Addresses ecological consequences on soils, slope water dynamics and slope failures

DESCRIPTION

Mid-Latitude Slope Deposits (Cover Beds), Second Edition focuses on widespread deposits and discusses their properties, genesis and age in subdued mountains of Central Europe, where to date most research on the matter has been conducted. The ecological consequences of such slope deposits on soils, slope water dynamics, and slope failures are addressed. Finally, transfer of the cover-bed concept to other mid-latitude regions is attempted for the reconstruction of landscape evolution. This unique compilation, covering several decades of a facies-oriented approach to slope-deposit research delivers deep insights into the wide field of research on cover beds and encourages researchers all over the world.

This is a valuable resource for students, academics and researchers in geomorphology, quaternary sciences, pedology, hydrology, and sedimentology.



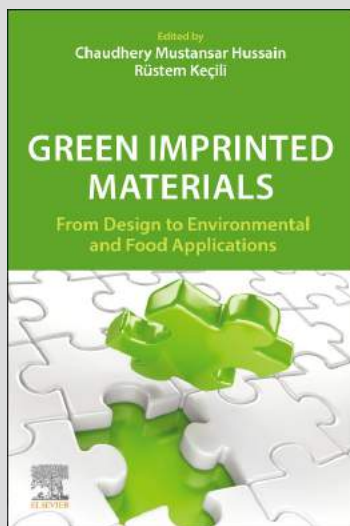
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EARTH & ENVIRONMENT Geology

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Green Imprinted Materials

From Design to Environmental and Food Applications

Edited by : **Rüstem Keçili**, Associate Professor and Vice Director, Anadolu University, Turkey and **Chaudhery Mustansar Hussain**, Adjunct Professor and Lab Director, Department of Chemistry and EVSC, New Jersey Institute of Technology, Newark, NJ, USA

ISBN: 9780443154317
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 465

AUDIENCE: Researchers and graduate students in molecular imprinting science and technology and those interested in green chemistry and the areas where imprinted materials can be applied. This book will be also useful for the industry practitioners who are working in the field of green chemistry, polymer chemistry, chemical engineering, environmental chemistry
BIC CODES: KCN, RN
THEMA CLASSIFICATION: THEMAKCVG; THEMATQ

A compilation of various chapters reviewing the state-of-the-art of technologies in the field of molecularly imprinted polymers and green chemistry

KEY FEATURES

- Explores innovative strategies to materials science, molecular imprinting technology, polymer chemistry and green chemistry, as well as their applications for environmental, biological and food samples
- Presents a plethora of novel and advantageous materials which have gathered the most pronounced attention over recent years
- Provides state-of-the-art technologies and applications in MIP's and green chemistry

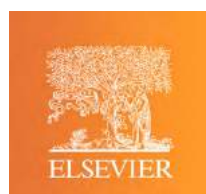
DESCRIPTION

Green Imprinted Materials: From Design to Environmental and Food Applications provides a comprehensive overview of green aspects to MIPs. With a strong focus on food and environment, this book provides insights into the state-of-the-art and practice of green chemistry and its approaches to imprinting. Methodologies for the preparation of these materials, as well as their potential in developing sustainable separation and sensing processes in analytical and bioanalytical chemistry are critically discussed throughout the book. Future perspectives of green imprinting technology is also evaluated.

This book is a valuable resource for researchers and graduate students in molecular imprinting science and technology and those interested in green chemistry and all those who wish to broaden their knowledge in the allied field.



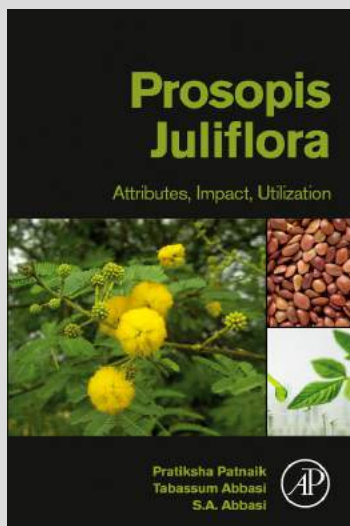
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CHEMISTRY

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Prosopis Juliflora

Attributes, Impact, Utilization

Pratiksha Patnaik, Research Associate, Centre for Pollution Control and Environmental Engineering Pondicherry University, India; **Tabassum Abbasi**, Assistant Professor, Centre for Pollution Control and Environmental Engineering, Pondicherry University, Chinnakalpet, Puducherry, India and **S. A. Abbasi**, Professor, Centre for Pollution Control and Environmental Engineering, Pondicherry University, Chinnakalpet, Puducherry, India

ISBN: 9780128198247
PUB DATE: Apr 01, 2024
LIST PRICE: £118.00 / \$150.00 / €132.00

DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 186

AUDIENCE: Students, researchers and governmental agencies interested in plant biology, forestry, plant ecology, invasive plant species and environmental science.

BIC CODES: PST
THEMA CLASSIFICATION: THEMAPPST

A complete resource on how to best utilize *Prosopis juliflora*

KEY FEATURES

- Summarizes all the key information available on *P. juliflora*, from its origin and systematics to its future prospects
- Discusses colonization, utilization and eradication
- Authored by leading experts in the field with over 40 years of experience

DESCRIPTION

Prosopis (Prosopis juliflora) is a xerophyte which, in its native habitats has been a desert plant. As long as it was confined to that habitat, *P. juliflora* was a great resource, improving the region's micrometeorology, binding its sandy soil, and providing shelter, fuel, feed, food, medicines, and cosmetics to the people of such regions. In particular, for the economically weaker inhabitants, *P. juliflora* was a lifeline. But when *P. juliflora* was indiscriminately introduced in other regions of the world in a hope to derive similar benefits from it, things began to go awry. Indeed, among the invasive species of plants which are spreading at an alarming rate in the tropical and sub-tropical regions of the world, *P. juliflora* is arguably the most hardy and resilient. It is growing so explosively that it even enters roads and homes, driving humans out of their dwellings. The resulting damage to biodiversity is enormous. This book highlights the dual role played so far by *P. juliflora* and itemizes the facets that make it a blessing in some contexts and a bane in other contexts. Authored by leading experts in the field, *Prosopis juliflora: Attributes, Impact, Utilization* is the first title of its kind to comprehensively discuss this hardy plant species. It will be an essential read for students, researchers and governmental agencies interested in plant biology, forestry, plant ecology, invasive plant species and environmental science.



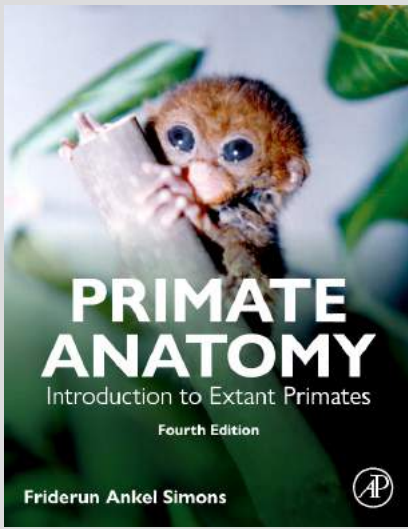
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Primate Anatomy, 4e

Introduction to Extant Primates

Friderun Ankel-Simons, Department of Evolutionary Anthropology, Duke University, Arizona, USA

ISBN: 9780443217197

PREVIOUS ISBN: 9780123725769

PUB DATE: Apr 01, 2024

LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 511

AUDIENCE: Primatologists, anatomists, paleontologists, naturalists, and primate conservationists, Advanced undergraduate and graduate students of biology, medicine, primate behavior, anthropology, and vertebrate paleontology

BIC CODES: PSD, TVH, PSVD, PSAK1

THEMA CLASSIFICATION:

THEMATVH; THEMALPSD;

THEMAPS; THEMAMFC;

THEMAMFG; THEMALPSAK

Synthesizes the taxonomy, anatomy, physiology, and genomics of extant primates, including humans, for diverse audiences including primatologists, anthropologists, and conservationists

KEY FEATURES

- Offers holistic coverage of the anatomy and physiology of extant primates
- Highlights taxonomic developments since the publication of the third edition of Primate Anatomy, including new genera and species assignments
- Introduces primate genomics and gender issues among primates
- Provides instructive and comprehensive review tables
- Includes many unique, novel, and easily understandable illustrations

DESCRIPTION

Primate Anatomy: Introduction to Extant Primates synthesizes the taxonomy, anatomy, physiology, and genomics of extant primates, including humans. It takes a holistic approach to describing primate skeletal, muscular, and organ structure and function, providing the tools to understanding the fundamentals and state of the science of primatology. Now in its fourth edition, this work introduces its audience to the history and objectives of the field of primatology. It enumerates and profiles extant primates before delving into detailed descriptions of primate skulls, brains, teeth, skeletons, musculature, organs, blood groups, reproduction, and development.

In addition, the book highlights recent advances in primate genomics, including new genera and species assignments, and concludes with a glance at the future of the field. Written by longtime expert Friderun Ankel-Simons, this new edition effectively introduces complex biological concepts in a manner accessible to all readers. It will serve as an excellent reference for technical and non-technical audiences, including primatologists, anatomists, paleontologists, anthropologists, conservationists, and naturalists.



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LIFE SCIENCES Biology

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Microbiome-Based Decontamination of Environmental Pollutants

Edited by : **Ajay Kumar**, Ph.D., Amity Institute of Biotechnology; **Joginder Singh**, Ph.D., Professor, Department of Microbiology, Climate Mitigation and Sustainable Agriculture Research lab (CMA SAR), Division of Research and Development, Lovely Professional University, Punjab, India and **Lucas Carvalho Basilio de Azevedo**, Ph.D., Professor at the Institute of Agricultural Sciences, Federal University of Uberland, Brazil

ISBN: 9780443217814
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 191 x 235
PAGES: c. 418
AUDIENCE: Researchers and academicians of universities, scientists, Postgraduate and graduate students, industries, and government agencies interested in Microbial biotechnology / Horticulture / Agronomy / plant-microbe interactions
BIC CODES: RBGB, PSAF, PSTS, PST
THEMA CLASSIFICATION: THEMATVB; THEMARBGB; THEMAPPST; THEMAPPSAF

Covers the basic to advanced theoretical and practical aspects of plant microbial-based management of environmental contamination

A Volume in the *Plant and Soil Microbiome Series*

KEY FEATURES

- Explores the emerging plant microbe interactive nexus for contaminants degradation
- Presents insights into the production and commercialization of plant-microbiome based enzymes
- Includes engineered microbes and microbial products application in contaminant management
- Highlights the latest omics and technologies used in plant–soil microbiome in contaminant management

DESCRIPTION

Microbiome-Based Decontamination of Environmental Pollutants explores the complex interactions of plant-associated microbiomes, providing insights into the pressing challenges of managing environmental resources such as soil, water, and waste. Analysis has shown a formidable potential based in the network interactions between plant microbiota and environmental contaminants. This book presents insights into the potential exploitation of these plant-associated microbial functions. This volume in the Plant and Soil Microbiome series summarizes microbiological aspects of environmental management from the basics to advanced theoretical as well as practical aspects of microbial-based approaches.

The physical and chemical changes caused by pollution of an ecosystem can occur rapidly, significantly impacting the functionality of ecosystem services in that environment. Environmental contamination poses and increasingly global challenge through direct and indirect adverse impacts on the climate, soil productivity and the health concerns of human beings. Traditional remediation techniques are not consistently feasible in mitigating environmental contaminants challenges in terms of cost-effectiveness, limited land resources and toxic residual products. The use of plant-associated microbes as part of a network of tools opens a new door to explore an alternative, eco-friendly and economical technology to mitigate the challenges of environmental contamination.



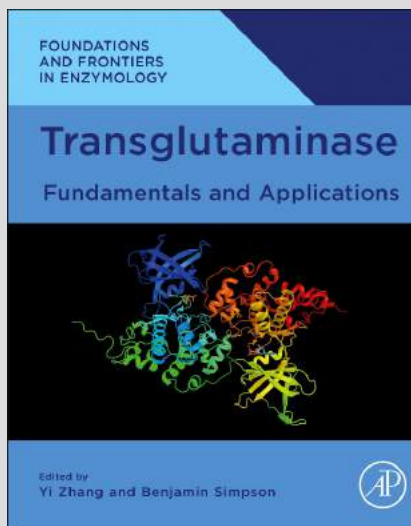
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LIFE SCIENCES Botany

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Transglutaminase

Fundamentals and Applications

Edited by : **Yi Zhang**, Assistant Professor and Junior Chair, University of Pau and Pays de l'Adour and French National Centre for Scientific Research, Pau, France and **Benjamin K. Simpson**, Professor, Biochemistry, McGill University, Montreal, Canada

ISBN: 9780443191688
PUB DATE: Feb 26, 2024
LIST PRICE: £134.00 / \$175.00 / €155.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 356
AUDIENCE: Biochemists, biotechnologists, biochemical engineers, pharmaceutical scientists, food scientists, Students
BIC CODES: PSB, PHVN, TCB, PSBZ, PSD
THEMA CLASSIFICATION: THEMAPSB; THEMAPHVN; THEMATCB; THEMAPSD

Offers a deep examination and practical discussion of transglutaminase enzymology across basic and applied research

A Volume in the *Foundations and Frontiers in Enzymology Series*

KEY FEATURES

- Brings together basic knowledge and applied research on transglutaminase biology
- Considers a range of application areas, from biomedicine to drug development, tissue engineering, food processing, and materials synthesis
- Includes instructive protocols for basic and applied transglutaminase research
- Features chapter contributions from global leading experts in the field, across disciplines and applications

DESCRIPTION

Transglutaminase: Fundamentals and Applications, a new volume in the *Foundations and Frontiers in Enzymology* series, stands as a comprehensive resource on this increasingly important class of enzymes. Following an introduction to the field, international experts discuss basic biology and structure – function relationships of transglutaminases, ongoing fundamental research, and new application areas, including food processing, material synthesis, biomedicine, disease treatment, and biotechnology. Approaches for sourcing transglutaminases from animals, plants, and microorganisms are considered, followed by chapters on applied uses in biomedicine, skin, bone biology, medicine, drug development, tissue engineering, seafood bioprocessing, dairy bioprocessing, synthesis of materials and polymers, and as an immobilization agent.

Research protocols are also provided, including research rationale, design, substrates, assays, and microassay steps for studying transglutaminases.



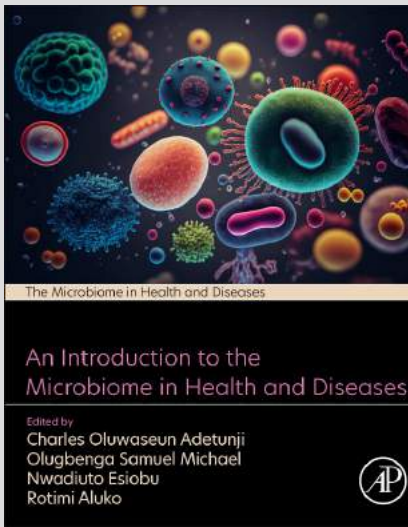
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LIFE SCIENCES Molecular Biology

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An Introduction to the Microbiome in Health and Diseases

Edited by : **Charles Oluwaseun Adetunji**, Full Professor at the Department of Microbiology, Faculty of Sciences and the Director of Research and Innovation, Edo State University Uzairue (EDSU), Edo State, Nigeria.; **Olugbenga Samuel Michael**, Department of Physiology, University of Tennessee Health Science Center, Memphis, TN, USA.; **N. Esiobu**, Professor of Microbiology and Biotechnology, Florida Atlantic University, Boca Raton, FL, USA and **Rotimi E. Aluko**

ISBN: 9780323911900
PUB DATE: Apr 01, 2024
LIST PRICE: £135.00 / \$175.00 / €155.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 247
ILLUSTRATIONS: 30 illustrations (10 in full color)
AUDIENCE: Researchers, clinicians, and students in the field of microbiology at the graduate level and above, including those working in academic, corporate, or non-profit settings, medical/scientific management, and pharmaceutical companies
BIC CODES: PSG
THEMA CLASSIFICATION: THEMPSG

Introductory resource offering fundamental coverage on the microbiome and its impact on health and disease outcomes.

A Volume in the *THE MICROBIOME IN HEALTH AND DISEASES* Series

KEY FEATURES

- Provides fundamental coverage on the microbiome and its effect on human health and diseases.
- Describes procedures for sampling small and larger samples of the microbiome.
- Discusses patents, bioproducts, commercialization, and the social, ethical and economic implications of the microbiome.

DESCRIPTION

The gut microbiome plays a very important role in your health. It controls digestion and has a beneficial impact on your immune system and other aspects of health. *An Introduction to the Microbiome in Health and Diseases* is a prelude to subsequent books on this topic which provides in-depth coverage on the microbiome from basic to clinical microbiology.

This introductory volume offers an overview on the microbiome and explores the role of the human microbiome in health and disease outcomes. It examines the compositional structure and molecular approaches to microbiome characterization and identification. Additional coverage also includes an introduction to animal microbiomes, plant microbiomes, epigenetic programming, gut microbiota and the impact of diet and exercise, as well as the relationship between the microbiome and COVID-19.



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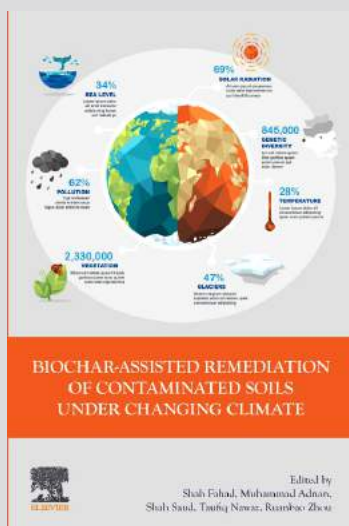
LIFE SCIENCES Microbiology

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Biochar-assisted Remediation of Contaminated Soils Under Changing Climate

Edited by : **Shah Fahad**, Department of Agronomy, Abdul Wali Khan University, Pakistan; **Muhammad Adnan**, Department of Agriculture, University of Swabi, Pakistan; **Ruanbao Zhou**, Department of Biology and Microbiology, South Dakota State University, Brookings, USA; **Taufiq Nawaz**, Department of Biology and Microbiology, South Dakota State University, Brookings, USA and **Shah Saud**, College of Life Science, Linyi University, Linyi, Shandong, China



ISBN: 9780443215629
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 372

AUDIENCE: Environmental and soil science practitioners around the globe; climate change policymakers; researchers and students engaged in soil, plant and environmental sciences. Graduate students

BIC CODES: TV

THEMA CLASSIFICATION: THEMATV

Covers biochar as a sustainable and ecological remedy for contaminated soils

KEY FEATURES

- Enables readers to understand the most recent developments surrounding metal-biochar interactions in soils and their impact on agricultural productivity
- Provides the latest statistics and literature review regarding the role of biochar in remediation of heavy metals polluted soils
- Examines the global status of heavy metals polluted soil

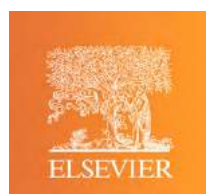
DESCRIPTION

Biochar-assisted Remediation of Contaminated Soils Under Changing Climate summarizes recent progress in understanding (a) metal-biochar interactions in soils, (b) potential risks associated with biochar amendment, and (c) the application of biochar for the remediation of HM polluted soils. In addition, research gaps and future directions in understanding biochar-metal interactions in soils is also explored. As soil contamination with heavy metals like Cr, Co, Cu, Ni, Mn, Cd, Pb, and Zn is becoming a big problem across the globe, especially in developed countries, this book elucidates on risks and future directions.

Globally, it has become a serious threat to human health and ecosystem integrity. applying amendments like phosphate compounds, liming materials, clay minerals, coal fly ash, organic composts, metal oxides, and biochar to heavy metals contaminated soil is considered one of the most promising in-situ remediation techniques. Biochar has become one of the most attractive research hotspots as a result of its special properties, along with its important role in climate change, global biogeochemical cycle, and environmental system.



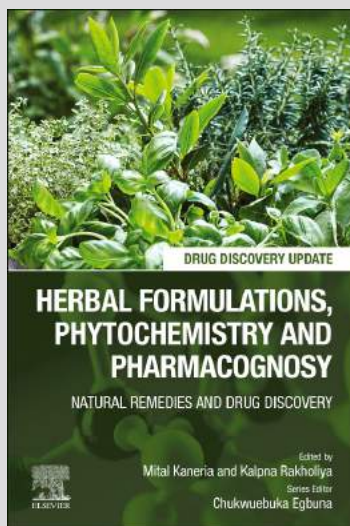
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LIFE SCIENCES Soil Science

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Herbal Formulations, Phytochemistry and Pharmacognosy

Edited by : **Mital Kaneria**, Assistant Professor in the Department of Biosciences, Saurashtra University, India and **Kalpna Rakholiya**, Assistant Professor and Head, Microbiology Department, Harivandana College, Rajkot, India

ISBN: 9780443153839
PUB DATE: Apr 01, 2024
LIST PRICE: £185.00 / \$225.00 / €215.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 465
AUDIENCE: Post graduate and researchers working with Medicinal Chemistry (drug design and drug development, molecular docking), Pharmacology, Botanists
BIC CODES: PNN, MMG
THEMA CLASSIFICATION: THEMAMKG; THEMAPPNN

Incorporates traditional and contemporary evidence-based medicine as integral parts of formal healthcare system

KEY FEATURES

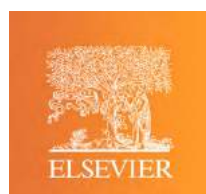
- Explores natural products as potential sources of novel drugs with new modes of action
- Covers recent developments and reporting up-to-date methods
- Combines principles of natural medicines with refined modern technology

DESCRIPTION

Herbal Formulations, Phytochemistry and Pharmacognosy combines the principles of natural medicines with refined modern technology to illustrate and promote the development of more ecofriendly, better effective, easily available and affordable drug discovery processes. The book provides classical and applied knowledge in drug discovery to broadly cover related aspects like herbal formulations, phytochemistry and pharmacogenetic research. The drug discovery process accelerates the design of new leads for various life-threatening diseases and natural medicines and has been an integral part of drug discovery, playing a major role as a template and offering holistic approaches for the management of various diseases.



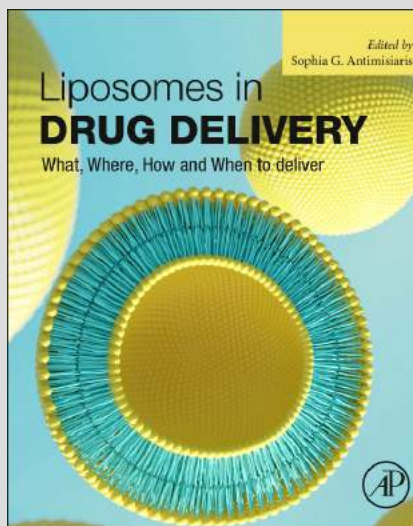
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CHEMISTRY Organic Chemistry

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Liposomes in Drug Delivery

What, Where, How and When to deliver

Edited by : **Sophia G. Antimisiaris**, Professor, Department of Pharmace Technology and Analysis, University of Patras, Patra, Greece

ISBN: 9780443154911
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 409

AUDIENCE: Master and PhD students in the field of Pharmaceutics, Material Sciences, Biomedical Engineering, Academics and industrial experts coming in from other disciplines, such a Chemistry, Agricultural, Cell biology, Biochemistry, etc.

BIC CODES: MMG, KNDP

THEMA CLASSIFICATION:

THEMAKND; THEMAMKG

A comprehensive, consistently structured, and up-to-date reference on liposomes in drug delivery

KEY FEATURES

- Focuses on key information - What, Where, How and When to deliver – needed for drug delivery researchers
- Covers all aspects of liposomes in drug delivery in one single volume
- Guides researchers through the decision process on whether and what liposomes are most applicable to their particular interest

DESCRIPTION

Liposomes in Drug Delivery: What, Where, How and When to Deliver is a concise, well-structured reference covering all the important issues related to the potential of this technology. Organized to provide practical information to researchers from any discipline with a particular therapeutic or bio-active substance to deliver, this book helps readers understand if liposomes can be of benefit for their particular need, what is the best type of liposome to use according to what needs to be delivered, where/when to deliver it, and how to design/prepare/characterize/investigate/optimize liposome properties for a particular application.

The book is structured in Four parts. The first covers in a concise but in-depth way, what liposomes are, which are the liposome types, advantages/disadvantages, and what is their stability, characterization methods, in vitro stability, and in vivo fate after different administration methods (routes). The second part focuses on the different mechanisms for liposomal drug delivery. Methodologies/technologies for manipulation of liposome structure/properties in order to design liposomes for particular delivery applications. Specific roadmaps for liposome design are discussed, including components to incorporate in liposomes for specific types of encapsulated molecules or specific routes of administration. The third part covers liposome applications for drug delivery. It focuses on specific delivery considerations for particular diseases. Finally, the fourth part covers methods of liposome fabrication.



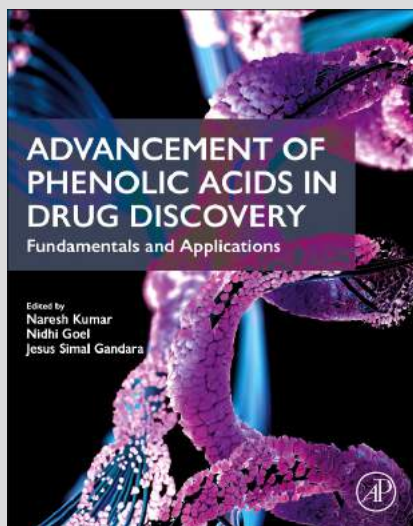
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LIFE SCIENCES Pharmacology

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Advancement of Phenolic Acids in Drug Discovery

Fundamentals and Applications

Edited by : **Naresh Kumar**, Research Scientist, Department of Biosciences and Biomedical Engineering, Indian Institute of Technology, Indore, India; **Nidhi Goel**, Assistant Professor, Department of Chemistry, Institute of Science, Banaras Hindu University, Uttar Pradesh, India and **Jesus Simal Gandara**, Professor in Nutrition and Food Science, Faculty of Food Science and Technology, University of Vigo, Spain

ISBN: 9780443185380
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 8.50w x 10.875h

PAGES: c. 595

AUDIENCE: Graduate students, and researchers working on natural products and their applications in the biomedical and pharmaceutical fields

BIC CODES: MMG, MFCC

THEMA CLASSIFICATION:

THEMAMKG; THEMAMF

A comprehensive reference on the pharmacology and extraction of natural phenolic acids for drug design and development

KEY FEATURES

- Highlights fundamental concepts with advanced exploration of phenolic acids
- Provides in-depth coverage on the design and development of novel drugs from natural phenolic acids
- Reviews the changing role of phenolic acids

DESCRIPTION

Advancement of Phenolic Acids in Drug Discovery: Fundamental and Applications offers comprehensive coverage of the ADMET profiles of phenolic acids, their extraction method and prospects for drug design and development. Chapters overview phenolic acids and their characterization, discuss the role of phenolic acids in plant systems, present sources and detailed extraction methods of phenolic acids, and cover phenolic acid mechanisms of action as it relates to several key diseases and health conditions, including their role as antioxidant agents, anti-inflammatory and analgesic drugs, anti-microbial drugs, anti-viral drugs, anti-cancer drugs, diabetes and metabolic dysfunctions, neurological disorders, cardiovascular diseases. The book's final chapters cover nanoscience aspects of phenolic acids, biomedical applications, and concludes with challenges and opportunities presented by phenolic acids. This is the ideal reference for researchers in the fields of drug development, both in academia and corporate settings. Researchers of related areas like food science and medicinal chemistry will also benefit from this in-depth profiling of therapeutical properties of phenolic acids.



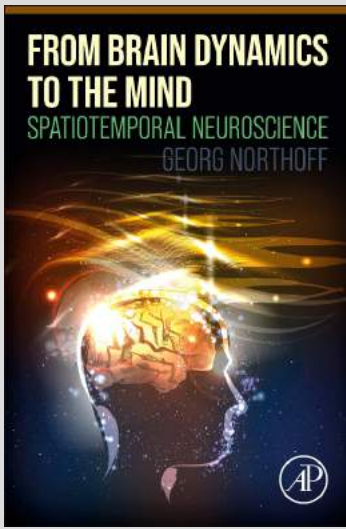
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LIFE SCIENCES Pharmacology

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From Brain Dynamics to the Mind

Spatiotemporal Neuroscience

Georg Northoff, Neuroscientist and Psychiatrist, University of Ottawa, Canada

ISBN: 9780128219355
PUB DATE: Apr 26, 2024
LIST PRICE: £121.00 / \$150.00 / €142.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 6.00w x 9.00h

PAGES: c. 325

AUDIENCE: Graduate and postgraduate students, neuroscientists, neurologists, psychologists, psychiatrists, biologists

BIC CODES: PSAN, JMC

THEMA CLASSIFICATION: THEMAPSAN; THEMAJMC

A reference on the dynamic brain with implications for AI and novel therapies for psychiatric disorders

KEY FEATURES

- Reviews models of understanding the mind/brain problem
- Identifies neural processes involved in consciousness, sense of self and brain function
- Includes concepts and research from neuroscience, psychology, cognitive science and philosophy
- Discusses implications for AI, novel therapies for psychiatric disorders and issues of ethics
- Suggests experimental designs and data analyses for future research on the mind/brain issue

DESCRIPTION

From Brain Dynamics to the Mind: Spatiotemporal Neuroscience explores how the self and consciousness is related to neural events. Sections in the book cover existing models used to describe the mind/brain problem, recent research on brain mechanisms and processes and what they tell us about the self, consciousness and psychiatric disorders. The book presents a spatiotemporal approach to understanding the brain and the implications for artificial intelligence, novel therapies for psychiatric disorders, and for ethical, societal and philosophical issues.

Pulling concepts from neuroscience, psychology and philosophy, the book presents a modern and complete look at what we know, what we can surmise, and what we may never know about the distinction between brain and mind.



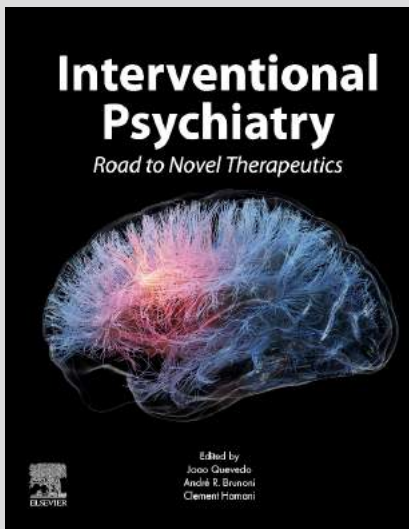
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LIFE SCIENCES Neuroscience

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Interventional Psychiatry

Road to Novel Therapeutics

Edited by : **Joao Quevedo**, MD, PhD, Professor of Psychiatry at the McGovern Medical School, The University of Texas Health Science Center at Houston, TX, USA; **André R. Brunoni**, University of São Paulo Brazil and **Clement Hamani**, Sunnybrook Research Institute, Toronto, Canada

ISBN: 9780443184963
PUB DATE: Apr 01, 2024
LIST PRICE: £165.00 / \$200.00 / €190.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 7.50w x 9.25h
PAGES: c. 558
AUDIENCE: Psychiatrists, Psychologists, Neurologists and Neurosurgeons from both academic and private settings
BIC CODES: JMM, MMJ
THEMA CLASSIFICATION: THEMAJMM; THEMAJMR; THEMAMKM

A comprehensive reference to interventional therapeutics in psychiatry

KEY FEATURES

- Introduces an innovative approach combining both well-established and innovative methodologies
- Includes an in-depth description of putative mechanisms of action
- Features clinician-friendly presentation of indications, contraindications, and techniques
- Outlines guidelines to foster fellowships in Interventional Psychiatry

DESCRIPTION

Recent advances in pharmacology and brain stimulation have led to the development of novel treatments for psychiatric disorders. These new advances have led to the development of a new subspecialty, Interventional Psychiatry.

Interventional Psychiatry: Road to Novel Therapeutics reviews all specialized treatments including device-based interventions such as electroconvulsive therapy (ECT), repetitive transcranial magnetic stimulation (rTMS), and deep brain stimulation (DBS). This book discusses the procedure-based pharmacologic interventions including ketamine infusion therapy and psychedelic therapies. Internationally contributed, this book outlines the state of the field, as well as implications for training and the role of the interventional psychiatrist in treatment teams.



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LIFE SCIENCES Neuroscience

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COVER IMAGE
FORTHCOMING

Organizers in Development, Vol 157

Edited by : **Claudio Stern**, UCL, London, UK

ISBN: 9780128237595
PUB DATE: Apr 01, 2024
LIST PRICE: £128.00 / \$210.00 /
€150.00
DISCOUNT: Serial
FORMAT: Hardback
TRIM: 6.00w x 9.00h
PAGES: c. 337
AUDIENCE: Researchers and
students
BIC CODES: PST
THEMA CLASSIFICATION:
THEMAPST

Edited by one of the best scientists in the field, this series presents the latest updates in the field of developmental biology

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in the *Current Topics in Developmental Biology* series
- Updated release includes the latest information on Organizers in Development

DESCRIPTION

Organizers in Development, Volume 157 in the *Current Topics in Developmental Biology* series, highlights new advances in the field, with this new volume presenting interesting chapters on topics such as The organizer: what it meant, and means, to developmental biology, Organizers/signaling regions that pattern the limb, Organizers/signaling regions in the branchial arches, The notochord/floor plate as a possible organizer, Transport and gradient formation of Wnt and Fgf in the early zebrafish gastrula, and more.



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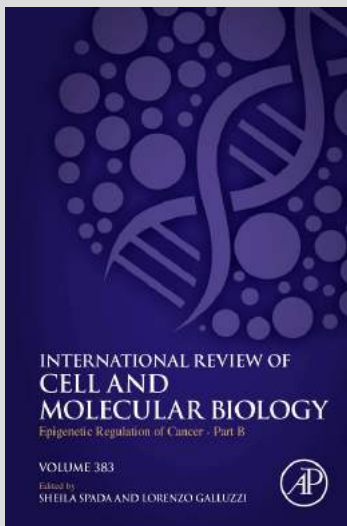
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SERIALS Biochemistry, Genetics & Molecular Biology

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Epigenetic Regulation of Cancer - Part B, Vol 383

Edited by : **Sheila Spada**, Department of Radiation Oncology, Weill Cornell Medicine, New York, NY, USA and **Lorenzo Galluzzi**, Assistant Professor of Cell Biology in Radiation Oncology, Department of Radiation Oncology, Weill Cornell Medical College, NY, USA

ISBN: 9780443136535
PUB DATE: Feb 13, 2024
LIST PRICE: £165.00 / \$239.00 / €171.00
DISCOUNT: Serial
FORMAT: Hardback
TRIM: 6.00w x 9.00h
PAGES: c. 260
AUDIENCE: International Research Community, Industry Professionals, Academic Institutions
BIC CODES: PSC, PSD, PSF
THEMA CLASSIFICATION: THEMASC; THEMASD; THEMASF

Edited by one of the best scientists in the field, this series presents the latest updates in the field of cell and molecular biology

KEY FEATURES

- Provides the latest information on cancer research
- Offers outstanding and original reviews on a range of cancer research topics
- Serves as an indispensable reference for researchers and students alike

DESCRIPTION

Epigenetic Regulation of Cancer, Part B, Volume 383 in the *International Review of Cell and Molecular Biology* series, highlights new advances in the field, with this new volume presenting interesting chapters on a variety of hot topics, including Epigenetic control of cell signaling in cancer stem cells, Genetic and epigenetic features of neuroendocrine prostate cancer and their emerging applications, Epigenetic regulation in pancreatic cancer, Epigenome Editing in Cancer: Advances and Challenges for Potential Therapeutic Options, Inhibition of epigenetic mechanisms in cancer, and Epigenetics as a determinant of radiation response in cancer.



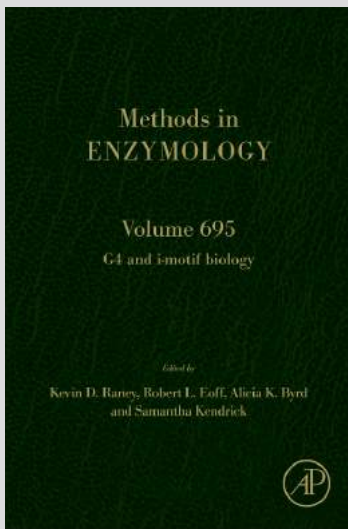
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G4 biology, Vol 695

Edited by : Kevin D Raney; Robert Eoff; Alicia Byrd and Samantha Kendrick

ISBN: 9780443217746
PUB DATE: Apr 01, 2024
LIST PRICE: £138.00 / \$199.00 / €142.00
DISCOUNT: Serial
FORMAT: Hardback
TRIM: 6.00w x 9.00h
PAGES: c. 400
AUDIENCE: Biochemists, biophysicists, molecular biologists, analytical chemists, and physiologists
BIC CODES: PSD, PSB
THEMA CLASSIFICATION: THEMPSB; THEMPSD

Edited by some of the best scientists in the field, this series presents the latest updates in the field of enzymology

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in *Methods in Enzymology* series
- Updated release includes the latest information on G4 biology

DESCRIPTION

G4 Biology, Volume 695 in the *Methods in Enzymology* series, highlights high value topics such as Assays to measure G4 resolution by DNA helicases, In gel staining methods of G4 DNA and RNA structures, Methods to probe the folding pathways of four-stranded intercalated cytosine-rich motifs at single base-pair resolution, Analyzing the effect of transcription coupled R-loop formation on G4 formation, Integrated Structural Biology for the study of higher-order G4 structures, Advancing the Study of Protein-G4 Interactions in DNA Repair: Insights from Biolayer Interferometry and Circular Dichroism Spectroscopy, Immunofluorescence microscopy (IF) of G-quadruplex and R-loops, and more.

Additional chapters delve into Production of the anti-G-quadruplex antibody BG4 for efficient ChIP-seq and CUT&Tag analysis: from plasmid quality control to validation, Utility of intercalator displacement assays for screening of ligands for i-motif DNA structures, Potentiometric titrations to study ligand interactions with DNA i-motifs, Towards Profiling of the G-Quadruplex Targeting Drugs in the Living Human Cells Using NMR Spectroscopy, and Identification of bona fide G4-binding proteins, Observing Pif1 opening dsDNA and G4 in real time by manipulation under magnetic tweezers, and in vivo detection of DNA secondary structures using Permanganate/S1 Footprinting with direct adapter ligation and sequencing (PDAL-Seq).



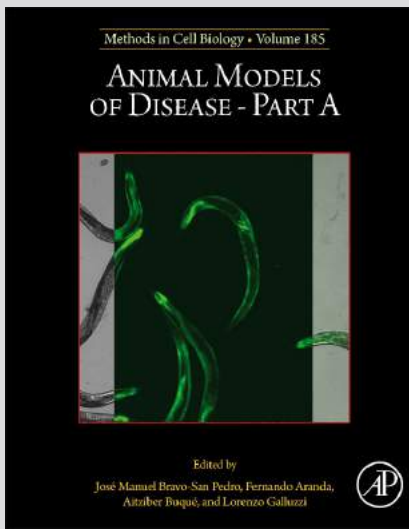
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SERIALS Methods in Enzymology

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Animal Models of Disease Part A, Vol 185

Edited by : **Lorenzo Galluzzi**, Assistant Professor of Cell Biology in Radiation Oncology, Department of Radiation Oncology, Weill Cornell Medical College, NY, USA; **Fernando Aranda Vega**, Fernando Aranda Vega, CIMA Universidad de Navarra, Program of Immunology and Immunotherapy, Spain; **Aitziber Buque Martinez**, Postdoctoral Associate in Radiation Oncology, Radiation Oncology, Weill Cornell Medical College, NY, USA and **Jose Manuel Bravo-San Pedro**, Departamento de Fisiología, Facultad de Medicina, Universidad Complutense de Madrid, Madrid, Spain

ISBN: 9780443222382
PUB DATE: Apr 01, 2024
LIST PRICE: £139.00 / \$175.00 / €160.00

DISCOUNT: Serial

FORMAT: Hardback

TRIM: 6.00w x 9.00h

PAGES: c. 0

AUDIENCE: Researchers, Academic Institutions, Medical and Healthcare Professionals

BIC CODES: PSC, PSD, PSF

THEMA CLASSIFICATION:

THEMAPSC; THEMAPSD;

THEMAPSF

Edited by one of the best scientists in the field, this series presents the latest updates in the field of cell biology

KEY FEATURES

- Provides the latest information on cancer research
- Offers outstanding and original reviews on a range of cancer research topics
- Serves as an indispensable reference for researchers and students alike

DESCRIPTION

Animal Models of Disease, Part A, Volume 185 in the *Methods in Cell Biology* series, highlights advances in the field, with this new volume presenting interesting chapters on a variety of timely topics, including New mouse model to study aneurysm development, Mouse Model of Secondary Cystic Echinococcosis, Modelling childhood cancer in *Drosophila*, Analysis of immunohistomorphological changes in the colonic mucosa in a high-saturated fat and high-cholesterol fed streptozotocin/nicotinamide diabetic rat model, Establishment of an orthotopic Glioblastoma mouse model for preclinical studies, Lateral Fluid Percussion Injury as a Model for Traumatic Brain Injury, Ovarian and colorectal peritoneal carcinomatosis in mouse models, and more.

Other chapters cover Genetically engineered mouse model of hepatocellular carcinoma, Radiotherapy protocol in cancer mouse models, Using *C. elegans* as a model for neurodegenerative diseases: Methodology and evaluation, Methodology for the induction of myocardial infarction and cardiac function evaluation, Behavioral assessment of fine socio-sexual olfactory cues detection in a mouse model of neurodegeneration, Heat shock and thermotolerance in *Caenorhabditis elegans*: an overview of laboratory techniques, and Using the model cestode *Taenia crassiceps* for the study of cysticercosis.



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SERIALS Biochemistry, Genetics & Molecular Biology

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RNA Therapeutics Part B, Vol 204

Edited by : **Dinh-Toi Chu**, Director, Center for Biomedicine and Community Health, Dean, Faculty of Applied Sciences International School, Vietnam National University, Hanoi 144 Xuan Thuy, Cau Giay, Hanoi, Vietnam and **Van Thai Than**, Center for Biomedicine and Community Health, Faculty of Applied Sciences International School, Vietnam National University, Hanoi 144 Xuan Thuy, Cau Giay, Hanoi, Vietnam

ISBN: 9780443235443
PUB DATE: Apr 01, 2024
LIST PRICE: £119.00 / \$171.00 / €122.00

DISCOUNT: Serial

FORMAT: Hardback

TRIM: 6.00w x 9.00h

PAGES: c. 280

AUDIENCE: Lectures, learders and experts on molecular bioedicnes, and students in Biotechnology, Clinicians and Healthcare Professionals, Pharmaceutical, and anyone who are particularly interested in RNA therapeutics

BIC CODES: PSD, PSB

THEMA CLASSIFICATION:

THEMAPSB; THEMPSD

Updates on RNA therapy, a future medical approach that can cure diseases from the genetic core

KEY FEATURES

- Covers RNA therapeutics' history and future perspectives
- Discusses the processes of RNA therapeutical development
- Presents recent applications of RNA therapeutic in clinics
- Provides the advantages and disadvantages of RNA therapeutics

DESCRIPTION

RNA Therapeutics, Part B, Volume 204 updates on a new class of medication based on RNA molecules, with chapters on a variety of topics, including RNA therapeutics for cardiovascular disorders, RNA therapeutics for kidney injury, RNA therapeutics for beta-thalassemia, RNA therapeutics for infectious diseases, RNA therapeutics for reproductive diseases, Potential of RNA and transcriptomic data to drive drug repurposing for various diseases, RNA therapeutics for glioma/glioblastoma, RNA therapeutics for regenerative medicine, Advances in the liposome-based delivery systems for RNA therapeutics in cancer, Advances in the polymeric nanoparticulate delivery systems for RNA therapeutics in cancer, and more.



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COVER IMAGE
FORTHCOMING

Progress in Optics, Vol 69

Taco Visser, Professor of Physics, Department of Physics and Astronomy, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands

ISBN: 9780443237713
PUB DATE: Apr 01, 2024
LIST PRICE: £155.00 / \$224.00 / €160.00
DISCOUNT: Serial
FORMAT: Hardback
TRIM: 6.00w x 9.00h
PAGES: c. 206
AUDIENCE: Optical Scientists and Engineers, Academic Institutions, Research Organizations, Libraries, Professional Organizations
BIC CODES: PHJ, PHM
THEMA CLASSIFICATION: THEMAPHM; THEMAPHJ

An indispensable tool for active researchers on recent updates and breakthroughs in optics

KEY FEATURES

- Provides state-of-the-art reviews written by experts
- Covers all aspects of optics
- Keeps researchers abreast of new developments in the field

DESCRIPTION

Progress in Optics, Volume 69 is the latest release in a yearly publication that provides in-depth reviews on topics in experimental theoretical optics, as well as on optical engineering. The book's intended audience are researchers and graduate students. Chapters in this new release include Radiative Transport in Rotated Reference Frames, Consistent scalar imaging theory, Single photon detection with superconducting detectors and their applications, Phased-array lidar, Pearcey beams and autofocusing waves, Meta-surfaces, and Holographic metasurfaces.



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COVER IMAGE
FORTHCOMING

Cranial Surgery - Part 1, Vol 284

Jeremy Christopher Ganz, (Retired) Department of Neurosurgery, Haukeland University Hospital, Bergen, Norway

ISBN: 9780443238710

PUB DATE: Apr 01, 2024

LIST PRICE: £199.95 / \$288.00 / €206.00

DISCOUNT: Serial

FORMAT: Hardback

TRIM: 6.00w x 9.00h

PAGES: c. 350

AUDIENCE: Neurosurgeons, Medical and Surgical Historians, Medical Illustrators, University Libraries, Neurosurgical and Surgical Societies

BIC CODES: JMM, PSAN

THEMA CLASSIFICATION: THEMAPSAN; THEMAJMM

This is the first book to emphasize the role of images in the history of surgery

KEY FEATURES

- Cranial Surgery
- Printing and Images
- Surgeons Conservatism

DESCRIPTION

This is a study of the evolution of the principles and techniques of cranial surgery from Hippocrates to the nineteenth century. The methods of conveying information by text and image are considered.



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COVER IMAGE
FORTHCOMING

Advances in Imaging and Electron Physics, Vol 229

Peter W. Hawkes, Founder-President of the European Microscopy Society and Fellow, Microscopy and Optical Societies of America; member of the editorial boards of several microscopy journals and Serial Editor, *Advances in Electron Optics*, France and **Martin Hýtch**, Senior Scientist, French National Centre for Research (CNRS), Toulouse, France

ISBN: 9780443296482
PUB DATE: Apr 01, 2024
LIST PRICE: £169.00 / \$245.00 / €175.00

DISCOUNT: Serial

FORMAT: Hardback

TRIM: 6.00w x 9.00h

PAGES: c. 216

AUDIENCE: Physicists, electrical engineers, applied mathematicians in all branches of image processing and microscopy as well as electron physics in general

BIC CODES: TJFD, TGB, UYS

THEMA CLASSIFICATION:

THEMAUYS; THEMATJF;

THEMATGB

Presents cutting-edge articles on the latest developments in all areas of microscopy, image science and related subjects in electron physics

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in the *Advances in Imaging and Electron Physics* series

DESCRIPTION

Advances in Imaging and Electron Physics, Volume 229 merges two long-running serials, *Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy*. Chapters in this release cover Characterization of nanomaterials properties using FE-TEM, Cold field-emission electron sources: From higher brightness to ultrafast beams, Every electron counts: Towards the development of aberration optimized and aberration corrected electron sources, and more. The series features articles on the physics of electron devices (especially semiconductor devices), particle optics at high and low energies, microlithography, image science, digital image processing, electromagnetic wave propagation, electron microscopy and the computing methods used in all these domains.



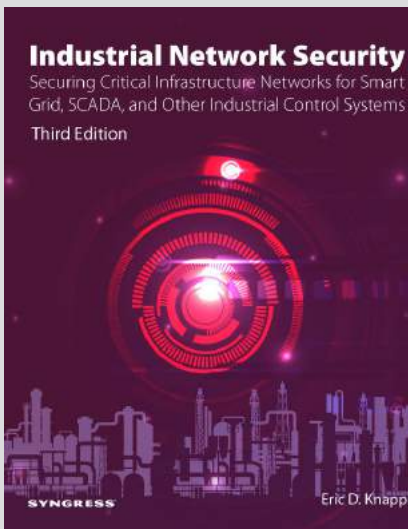
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SERIALS Physics & Astronomy

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Industrial Network Security, 3e

Securing Critical Infrastructure Networks for Smart Grid, SCADA, and Other Industrial Control Systems

Eric D. Knapp, Director Strategic Alliances for Wurdtech Security Technologies

ISBN: 9780443137372

PREVIOUS ISBN: 9780124201149

PUB DATE: Apr 01, 2024

LIST PRICE: £68.95 / \$89.95 / €77.95

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 191 x 235

PAGES: c. 465

AUDIENCE: Information security professionals, Computer Science analysts, consultants, and researchers in academia and industry. Electrical Control System operators, SCADA system operators, and IT professionals in the following verticals: electricity, water, gas, chemical, oil, and smart grid. DoE and NIST staff, policy makers, and people working on the corporate side of power companies and utilities.

BIC CODES: UY, PBD

THEMA CLASSIFICATION:

THEMAUY; THEMABPD

Teaches readers how to understand and address the unique security concerns that face the world's most important networks

"...worth recommendation for people who are interested in modern industry control systems security. Additionally, it will be advantageous for university researchers and graduate students in the network security field, as well as to industry specialists in the area of ICS." --**IEEE Communications Magazine**

KEY FEATURES

- All-new real-world examples of attacks against control systems such as Trisis, Industroyer, Incontroller, and more
- New information on Risk Management to better address cyber-physical systems and the risks associated with cyber-physical attacks
- Includes all-new content on OT attack methodology, USB security, OT Cyber Kill Chains, Incident Response lifecycles, and more
- Provides improved guidance for implementing security controls and risk mitigation strategies, including expanded coverage of network segmentation, monitoring, and threat detection
- Includes new coverage of network spans, mirrors, and taps, as well as asset discovery, log collection, and industrial-focused SIEM solution

DESCRIPTION

As the sophistication of cyber-attacks increases, understanding how to defend critical infrastructure systems—energy production, water, gas, and other vital systems—becomes more important, and heavily mandated. *Industrial Network Security, Third Edition* arms you with the knowledge you need to understand the vulnerabilities of these distributed supervisory and control systems.

Author Eric Knapp examines the unique protocols and applications that are the foundation of Industrial Control Systems (ICS) and provides clear guidelines for their protection. This comprehensive reference gives you thorough understanding of the challenges facing critical infrastructures, new guidelines and security measures for infrastructure protection, knowledge of new and evolving security tools, and pointers on SCADA protocols and security implementation.



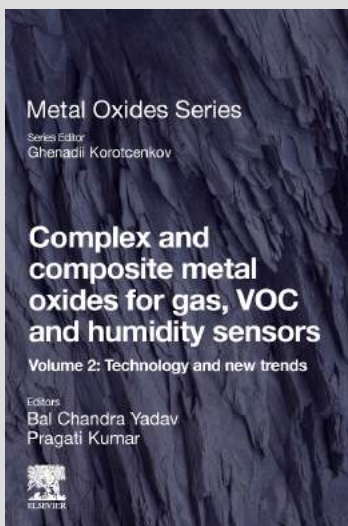
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COMPUTING

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Complex and Composite Metal Oxides for Gas, VOC and Humidity Sensors, Volume 2

Technology and New Trends

Edited by : **Bal Chandra Yadav**, PhD, School of Physical and Decision Sciences, Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, U.P., India and **Pragati Kumar**, PhD, Department of Nano Science and Materials, Central University of Jammu, Rahay-Suchani (Bagla), Dist. Samba, Jammu, J&K, India

ISBN: 9780323954761
PUB DATE: Apr 01, 2024
LIST PRICE: £200.00 / \$260.00 / €230.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 511
AUDIENCE: Materials Scientists and Engineers in academia and R&D, Environmental Scientists
BIC CODES: TGM, TJFD
THEMA CLASSIFICATION: THEMATGM; THEMATJF

Important reference on the latest advances in synthesis strategies to produce metal oxide nanocomposites based gas and VOC sensors, and new materials

A Volume in the *Metal Oxides Series*

KEY FEATURES

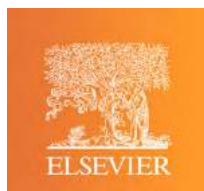
- Provides an overview of the material preparation and synthesis strategies of metal oxide composite and metal oxide hybrid materials for use in gas and humidity sensors
- Reviews emerging advanced metal oxide materials such as perovskites, spinel ferrites, and quaternary materials for gas and VOC sensors
- Discusses the potential opportunities and challenges to be circumvented in the use of metal oxide materials to enable new sensor technologies

DESCRIPTION

Complex and Composite Metal Oxides for Gas, VOC and Humidity Sensors, Volume Two: Technology and New Trends focuses on an overview of the advanced nanocomposite metal oxide materials used in sensors for environmental monitoring applications. Volume Two discusses the state-of-the-art for the synthesis methods of innovative morphology, metal oxide hybrids, and heterostructures. It also describes the new generation of complex materials such as perovskites, spinel ferrites, and quaternary type-based gas and VOC sensors. This volume includes a brief discussion on advanced strategies for the development of futuristic sensors with properties like room temperature operation, self-power generation, self-healable, or flexible and wearable.



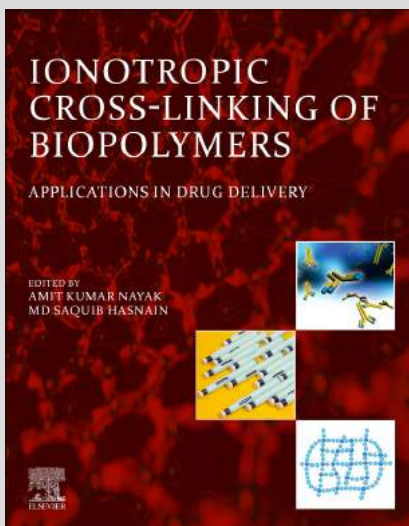
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ENGINEERING Electrical

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Iontropic Cross-Linking of Biopolymers

Applications in Drug Delivery

Edited by : **Amit Kumar Nayak**, PhD, Department of Pharmaceutics, School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India and **Md Saqib Hasnain**, Ph.D, Department of Pharmacy, Palamau Institute of Pharmacy, Daltonganj, Jharkhand, India

ISBN: 9780323961165
PUB DATE: Apr 01, 2024
LIST PRICE: £220.00 / \$270.00 / €255.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 697

AUDIENCE: Researchers and advanced students across polymer science, biomaterials, biomedicine, pharmaceuticals, healthcare, biotechnology, and chemistry, Scientists and R&D working in pharmacy, drug delivery, and materials for biomedicine

BIC CODES: MQW, TCB, TDCP, TGM

THEMA CLASSIFICATION:

THEMATCB; THEMATGM;
THEMAMQW; THEMATDCP;
THEMATGMP; THEMATDPF

A detailed guide to the preparation of ionotropically cross-linked biopolymeric systems for drug delivery applications

KEY FEATURES

- Explains chemistry, mechanisms, preparation methods and applications of biopolymeric systems
- Covers a range of biopolymer sources, including alginate, pectinate, gellan gum, chitosan, and others
- Guides the reader to cutting-edge applications in drug delivery, drug release, cell delivery and tissue engineering

DESCRIPTION

Iontropic Cross-Linking of Biopolymers: Applications in Drug Delivery provides in-depth insights and presents the latest advances in ionotropic cross-linked biopolymeric systems for drug delivery and related applications. Sections introduce the fundamentals of ionotropic cross-linking of biopolymers, including mechanisms, chemistry, cross-linking methods and gelation. Additional content delves into ionotropically cross-linked biopolymers based on a range of sources, including alginate, pectinate, carboxymethyl cellulose, gellan gum, chitosan, carboxymethylated gums, plant polysaccharide blends, and synthetic polymer blends. This is followed by a section focusing on ionotropically cross-linked biopolymeric systems, such as polymeric nanoparticles, microparticles, beads, and reinforced matrices.

The last part of the book explores specific advanced drug delivery applications, before considering future opportunities and challenges in the field. This is a valuable resource for researchers and advanced students across polymer science, biomaterials, biomedicine, pharmaceuticals, biotechnology, and chemistry, as well as scientists and R&D personnel working in pharmacy, drug delivery, and materials for biomedicine.



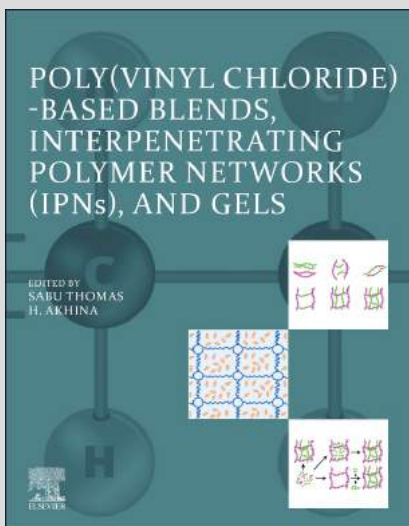
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ENGINEERING Materials

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Poly(vinyl chloride)-based Blends, Interpenetrating Polymer Networks (IPNs), and Gels

Edited by : **Sabu Thomas**, Vice Chancellor, Mahatma Gandhi University, Kerala, India and **H. Akhina**, Postdoctorate Researcher, Mahatma Gandhi University, Kerala, India

ISBN: 9780323994743
PUB DATE: Apr 01, 2024
LIST PRICE: £210.00 / \$270.00 / €235.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.50w x 9.25h

PAGES: c. 744

AUDIENCE: Academia: Researchers and advanced students in polymer science, chemistry, composite science, and materials science and engineering. Industry: R&D

professionals, engineers, and scientists working with advanced PVC-based materials, across a range of applications and industries (e.g. construction, electronics, biomedicine, consumer goods, aerospace, etc.)

BIC CODES: TDCP, MQW, TCB, TGM

THEMA CLASSIFICATION:

THEMATDCP; THEMATGMP;

THEMATDPF; THEMATCB;

THEMATGM; THEMAMQW

An innovative guide to PVC, with thorough coverage of materials, properties, analysis, applications, and the latest advances

KEY FEATURES

- Offers methodical, in-depth coverage of PVC-based blends, IPNs and gels with each polymer type
- Explains advanced methods for PVC-based materials with improved properties for a range of novel applications
- Provides avenues for improved sustainability, discussing PVC from biomass, lifecycle, recycling, and other environmental considerations

DESCRIPTION

Poly(vinyl chloride)-based Blends, Interpenetrating Polymer Networks (IPNs), and Gels brings together the latest research on the blending of PVC, covering processing, materials, properties, and applications. This book addresses these challenges and highlights the state-of-the-art in the field, such as the development of eco-friendly micro and nanostructured functional materials based on PVC and advances in experimental and theoretical studies of PVC based-polymer blends. This is a valuable resource for researchers and advanced students in polymer science, chemistry, composite science, and materials science and engineering, as well as R&D professionals, engineers, and scientists working with advanced PVC-based materials across a range of industries.



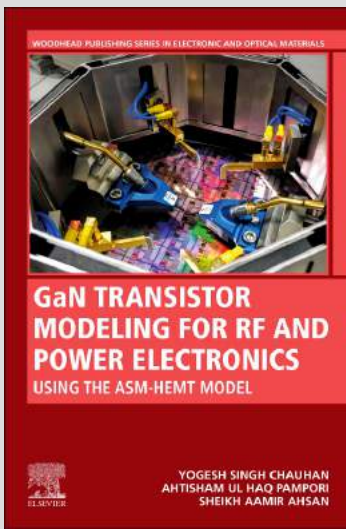
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ENGINEERING Materials

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GaN Transistor Modeling for RF and Power Electronics

Using The ASM-HEMT Model

Yogesh Singh Chauhan, Professor, Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur, India; **Ahtisham Ul Haq Pampori**, Department of Electrical Engineering, Indian Institute of Technology, Kanpur, U.P., India and **Sheikh Aamir Ahsan**, Assistant Professor, Department of Electronics and Communication Engineering, National Institute of Technology Srinagar, Hazratbal, Srinagar, India

ISBN: 9780323998710
PUB DATE: Apr 01, 2024
LIST PRICE: £165.00 / \$215.00 / €190.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 395
ILLUSTRATIONS: 200 illustrations (150 in full color)
AUDIENCE: Materials Scientists and Engineers; Electrical Engineers; Physicists
BIC CODES: TGX, TGM, TJFD, TJ
THEMA CLASSIFICATION: THEMAKND; THEMATGM; THEMATJF

The first book to explain the industry standard ASM-HEMT compact model and the characterization and parameter extraction needs of GaN modeling

A Volume in the *Woodhead Publishing Series in Electronic and Optical Materials Series*

KEY FEATURES

- Provides an overview of the operation and physics of GaN-based transistors
- Describes all aspects of the ASM-HEMT model for GaN circuits, which is an industry standard model, by the developers of the model
- Details parameter extraction of GaN devices and measurement data requirements for GaN model extraction

DESCRIPTION

GaN Transistor Modeling for RF and Power Electronics: Using The ASM-GaN-HEMT Model covers all aspects of characterization and modeling of GaN transistors for both RF and Power electronics applications. Chapters cover an in-depth analysis of the industry standard compact model ASM-HEMT for GaN transistors. The book details the core surface-potential calculations and a variety of real device effects, including trapping, self-heating, field plate effects, and more to replicate realistic device behavior. The authors also include chapters on step-by-step parameter extraction procedures for the ASM-HEMT model and benchmark test results.

GaN is the fastest emerging technology for RF circuits as well as power electronics. This technology is going to grow at an exponential rate over the next decade. This book is envisioned to serve as an excellent reference for the emerging GaN technology, especially for circuit designers, materials science specialists, device engineers and academic researchers and students.



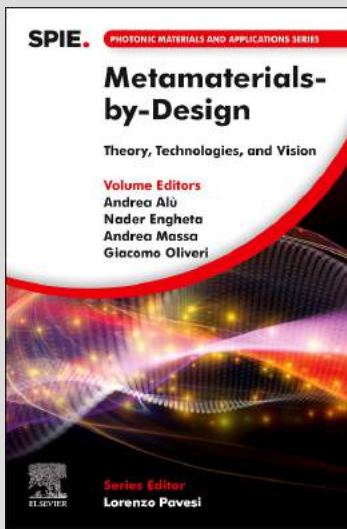
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ENGINEERING Electrical

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Metamaterials-by-Design

Theory, Technologies, and Vision

Edited by : **Andrea Alù**; **Nader Engheta**, H. Nedwill Ramsey Professor of Electrical and Systems Engineering, University of Pennsylvania, Philadelphia, Pennsylvania, USA; **Andrea Massa**, Full Professor of Electromagnetic Fields, University of Trento, Trento, Italy and **Giacomo Oliveri**, Associate Professor, Department of Information Engineering and Computer Science, University of Trento, Trento, Italy

ISBN: 9780323999854
PUB DATE: Apr 01, 2024
LIST PRICE: £185.00 / \$240.00 / €210.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 389
AUDIENCE: Materials Scientists and Engineers; Physicists, Electrical Engineers
BIC CODES: TJ, TTB, TGM
THEMA CLASSIFICATION: THEMATTB; THEMATGM; THEMATJF

Reviews recent developments of refraction-index driven to application-oriented advanced artificial materials synthesis

A Volume in the *Photonic Materials and Applications Series* Series

KEY FEATURES

- Includes comprehensive review of the research developments, methodologies, and opportunities in the field of metamaterials-by-design
- Discusses new and emerging applications of metamaterials in microwave and terahertz spectrum, photonics, and optics scenarios
- Reviews performance-driven metamaterial design methodologies and technologies in communications and sensing

DESCRIPTION

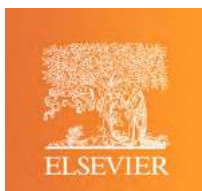
Metamaterials-by-Design: Theory, Technologies, and Vision is devoted to a comprehensive review of the latest advancements and current trends in the field of system-level-oriented metamaterial design methods, technologies, and future perspectives.

Starting from the theoretical and methodological motivations of this research and covering macro-scale performance-driven design of volumetric and planar metamaterials, the book introduces advanced task-oriented modeling approaches. The approaches discussed include specific reference to their multi-scale / multi-physics customization in recent metamaterial science and engineering. In the introduction of these concepts there is particular attention paid to the illustration of the physical mechanisms and phenomena at the basis of the field manipulation capabilities enabled by metamaterials.

Then, a wide set of recent application examples in microwave, terahertz, photonics, and optics scenarios is reviewed, highlighting the logical and methodological interconnections among the different domains. For example, contributions from industry and academic perspectives on active and passive metamaterial-enhanced devices for communications and sensing are included. The final part of the volume is aimed at providing a perspective regarding the current trends, future research, and application tracks in system-performance-driven metamaterial design methodologies and technologies, included potential applications in future reconfigurable and cognitive materials.



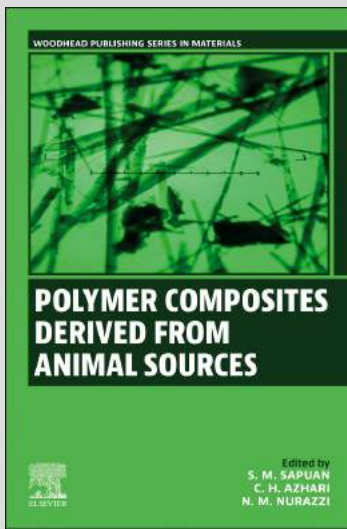
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Polymer Composites Derived from Animal Sources

Edited by : **S. M. Sapuan**; **C. H. Azhari**, Emeritus Professor, Department of Mechanical and Materials Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia. and **N. M. Nurazzi**, Bioresource Technology Division, School of Industrial Technology, Universiti Sains Malaysia, Penang 11800, Malaysia

ISBN: 9780443224140
PUB DATE: Apr 01, 2024
LIST PRICE: £195.00 / \$243.99 / €225.99
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 549
AUDIENCE: Academic and industrial researchers, and materials scientists and engineers working on the research and development of natural-based composites derived from animal sources MSC and postgraduate students in materials science, mainly polymers and composite materials
BIC CODES: TDCP, TGM, TDCQ
THEMA CLASSIFICATION: THEMATDPF; THEMATGM; THEMATGMP

A comprehensive reference on the preparation and applications of high-performance polymer composites derived from animal sources

A Volume in the *Woodhead Publishing in Materials Series*

KEY FEATURES

- Provides a comprehensive reference on the preparation and applications of high-performance polymer composites derived from animal sources
- Covers materials selection, design solutions, manufacturing techniques, characterization, structural analysis, and performance for various applications
- Includes extraction methods, surface treatment, and modification and fabrication methods
- Focuses on economic and environmental aspects

DESCRIPTION

Polymer Composites Derived from Animal Sources presents a systematic review of recent developments in this important research field. The book provides a thorough introduction to the various types of animal-based material resources currently available and discusses their morphology, extraction process, sustainability, formation, properties, and applications. Emphasis is placed on applications of polymer composites derived from wool, silk, chicken, bovine, marine life, and animal waste. Different types of processing techniques are discussed in detail as well as chemical modification, interfacial adhesion, and the structure-property relationship.

The book will be a valuable reference resource for academic and industrial researchers, and materials scientists and engineers working on the research and development of natural-based composites derived from animal sources.



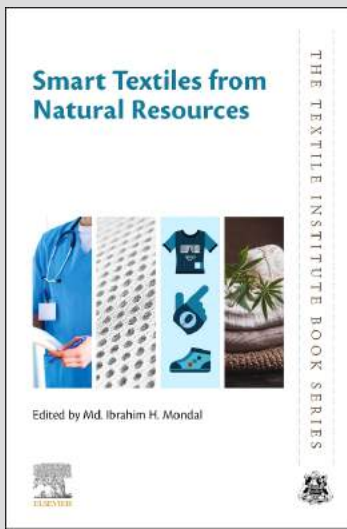
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Smart Textiles from Natural Resources

Edited by : **Md. Ibrahim H. Mondal**, Professor, Polymer and Textile Research Laboratory, Department of Applied Chemistry and Chemical Engineering, University of Rajshahi, Rajshahi, Bangladesh

ISBN: 9780443154713
PUB DATE: Apr 01, 2024
LIST PRICE: £310.00 / \$405.00 / €355.00
DISCOUNT: Reference
FORMAT: Paperback
TRIM: 6.00w x 9.00h
PAGES: c. 616
AUDIENCE: Researchers in academia and industry designing with natural textiles
BIC CODES: TDH
THEMA CLASSIFICATION: THEMATDCP; THEMATDPF; THEMATGMP

Interdisciplinary guide to natural textiles in smart applications, covering manufacture, process techniques, construction specifications, and testing methods and standards

A Volume in the *The Textile Institute Book Series* Series

KEY FEATURES

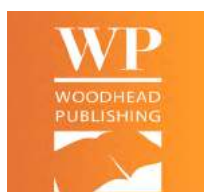
- Covers a wide variety of novel applications of smart textiles, including medical, protective, and automotive
- Proposed solutions are based on case studies from academic and industrial labs around the world
- Explains how to improve the biodegradability, renewability, biocompatibility, and non-toxicity of smart products

DESCRIPTION

Smart Textiles from Natural Resources is an interdisciplinary guide for best practices and emerging challenges in the use of natural textiles in smart applications. The movement towards smart textiles has attracted researchers from many fields creating multidisciplinary research frontiers with nanoscience, smart materials and structures, microelectronics, and wireless communication. This groundbreaking book provides technical advice and foundational support to researchers from all of these backgrounds. Each chapter is written, reviewed, and edited to cover the principles of manufacture, process techniques and mechanisms, and state-of-the-art construction specifications, properties, test methods, and standards of major product areas and applications.



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