

Health & Science

New Books Preview

February 2024



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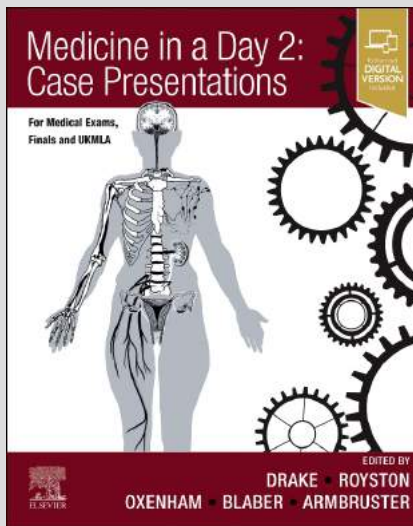
N.B. Please note prices and publication dates may be subject to change without prior notice. Late Addition titles are ones that missed the corresponding New Books Preview Month.

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+



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; **Hollie Blaber**, MB ChB, BSc, Foundation Year Doctor, Milton Keynes University Hospital, Buckinghamshire, UK; **Gregory Oxenham**, MB ChB, BA, Junior ED Registrar, Palmerston North Hospital, MidCentral DHB, NZ; **Alexander Royston** and **Berenice Aguirrezabala Armbruster**, MB ChB, BSc

ISBN: 9780323847698
PUB DATE: Feb 05, 2024
LIST PRICE: £34.99 / \$43.99 / €40.99
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 540
BIC CODES: MJ
THEMA CLASSIFICATION:
THEMAMJ

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

KEY FEATURES

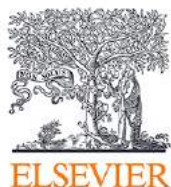
- Covers 201 common presentations, including key differentials and investigations at a glance
- Reflects the requirements of Medical Finals and covers all the core 'Presentations' in the new UKMLA curriculum outline
- Succinct and easy to navigate – won't overload you in the lead up to the exams
- Key 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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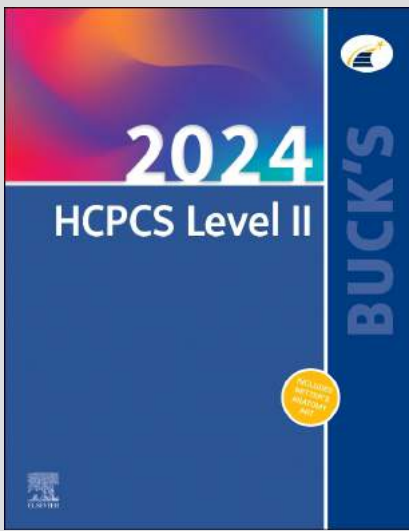


Medical Education UKNL Clinical
Students

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

Also includes resources via:





Buck's 2024 HCPCS Level II

ISBN: 9780443111808
PREVIOUS ISBN: 9780323874151
PUB DATE: Feb 26, 2024
LIST PRICE: £85.99 / \$105.99 /
€100.99
DISCOUNT:
FORMAT: Spiral bound
TRIM:
PAGES: c. 42
BIC CODES: MBF
THEMA CLASSIFICATION:
THEMAMBF

For fast, accurate, and efficient coding, pick this practical HCPCS reference

KEY FEATURES

- **UNIQUE! Current Dental Terminology (CDT) codes** from the American Dental Association (ADA) offer one-step access to all dental codes.
- **UNIQUE! Full-color anatomy plates (including *Netter's Anatomy illustrations*)** enhance your understanding of specific coding situations by helping you understand anatomy and physiology.
- **Easy-to-use format** optimizes reimbursement through quick, accurate, and efficient coding.
- **At-a-glance code listings and distinctive symbols** make it easy to identify new, revised, and deleted codes.
- **Full-color design with color tables** helps you locate and identify codes with speed and accuracy.
- **Jurisdiction symbols** show the appropriate contractor to be billed when submitting claims to Medicare carriers and Medicare Administrative Contractors (MACs).
- **Ambulatory Surgery Center (ASC) payment and status indicators** show which codes are payable in the Hospital Outpatient Prospective Payment System to ensure accurate reporting and appropriate reimbursement.
- **Durable medical equipment, prosthetics, orthotics, and supplies (DMEPOS) indicators** address reimbursement for **durable medical equipment, prosthetics, orthotics, and supplies**.
- **Drug code annotations** identify brand-name drugs as well as drugs that appear on the National Drug Class (NDC) directory and other Food and Drug Administration (FDA) approved drugs.

DESCRIPTION

For fast, accurate, and efficient coding, pick this practical HCPCS reference! **Buck's 2024 HCPCS Level II** provides an easy-to-use guide to the latest HCPCS codes. It helps you locate specific codes, comply with coding regulations, manage reimbursement for medical supplies, report patient data, code Medicare cases, and more. Spiral bound, this full-color reference simplifies coding with anatomy plates (including *Netter's Anatomy* illustrations) and ASC (Ambulatory Surgical Center) payment and status indicators. In addition, it includes a companion website with the latest coding updates.



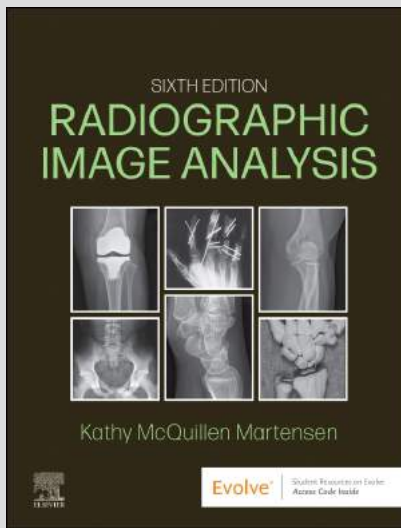
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Health Professions II (HP2) Health
Information Management
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:





Radiographic Image Analysis, 6e

Kathy McQuillen-Martensen, MA, RT(R), Director of Radiologic Technology Education,
Department of Radiology, The University of Iowa Hospitals and Clinics, Iowa City, Iowa

ISBN: 9780323930697
PREVIOUS ISBN: 9780323522816
PUB DATE: Feb 01, 2024
LIST PRICE: £79.99 / \$112.99 /
€92.99
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 624
BIC CODES: MQH
THEMA CLASSIFICATION:
THEMAMQH

Gain the knowledge and skills you need to analyze radiographic images and solve imaging challenges

KEY FEATURES

- **Chapter objectives, key terms, outlines, and summaries** reinforce the most important material.
- **Image analysis guidelines** for each procedure include accurately positioned projections with labeled anatomy, photographs of accurately positioned models, discussions of poor positioning and of positioning variations, practice projections that demonstrate common procedural errors, and more.
- **Questions to Consider** help you thoroughly analyze projections.
- **Spotlights highlighting Concepts boxes** emphasize the most important information and direct readers to additional information on these topics.
- **Review questions** at the end of chapters help you assess your understanding of the material, with answers provided on the Evolve website.
- **Summary tables** provide quick access to important data for easy reference.
- **Bolded key terms** are defined in the expanded glossary, ensuring that you understand the terms under discussion.

DESCRIPTION

Gain the knowledge and skills you need to analyze radiographic images and solve imaging challenges! Reflecting the latest ARRT® content specifications, **Radiographic Image Analysis, 6th Edition** provides a guide to evaluating and adjusting images to produce diagnostic-quality radiographs. It helps you to identify the error in positioning or technique that may have caused a poor image, then shows how to correct the problem, so you can reduce the need for repeat radiographs. Each projection includes an optimal radiograph along with examples of unacceptable images. Written by radiology expert Kathy McQuillen Martensen, this text builds your critical thinking skills and helps you prepare for success on the ARRT certification examination.



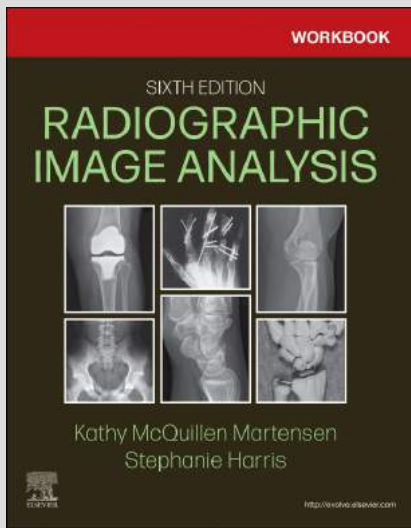
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Health Professions II (HP2)
Rad/Imaging Technology
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:





Workbook for Radiographic Image Analysis, 6e

Kathy McQuillen-Martensen, MA, RT(R), Director of Radiologic Technology Education, Department of Radiology, The University of Iowa Hospitals and Clinics, Iowa City, Iowa and **Stephanie Harris**, B.S. R.T.(R)(M)(CT)

ISBN: 9780323930680
PREVIOUS ISBN: 9780323544634
PUB DATE: Feb 01, 2024
LIST PRICE: £64.99 / \$88.99 / €74.99
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 544
BIC CODES:
THEMA CLASSIFICATION:
THEMAMQH

Review key concepts and practice the skills you need to analyze radiographic images and solve imaging challenges

KEY FEATURES

- **Positioning and technique exercises** help with knowledge retention and prepare you for success in radiography practice.
- **Study questions** for each procedure focus on how the patient should be positioned to obtain an accurately positioned projection, and help you prepare for the ARRT® certification examination.
- **Poorly positioned projections not included in the textbook** focus on each topic and procedure, and ask you to find the cause of the problem.
- **Questions on improperly positioned projections** ask you to evaluate the image and make adjustments when the images are suboptimal.
- **Answer key** to the study questions may be found on the Evolve website for *Radiographic Image Analysis*, under student resources.

DESCRIPTION

Review, practice, and apply concepts of digital imaging and positioning! With chapters corresponding to the chapters in *Radiographic Image Analysis, 6th Edition*, this practical workbook provides projections and questions to help you hone your imaging and evaluation skills. Exercises for each procedure ask you to correct positioning errors, practice critical thinking, and solve positioning challenges. Adding evaluation images beyond those in the main text, this workbook helps you prepare for success on the ARRT® certification examination and in radiography practice.



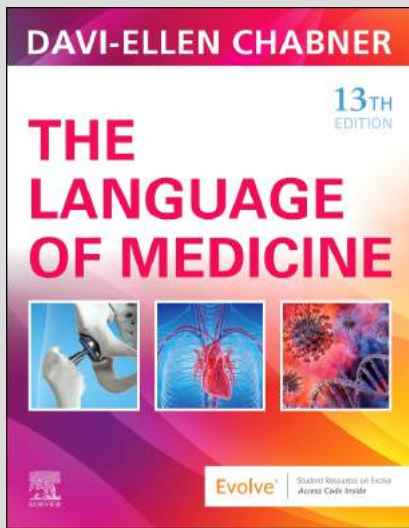
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Health Professions II (HP2)
Rad/Imaging Technology
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:





The Language of Medicine, 13e

Davi-Ellen Chabner, BA, MAT

ISBN: 9780443107795
PREVIOUS ISBN: 9780323551472
PUB DATE: Feb 01, 2024
LIST PRICE: £89.99 / \$112.99 /
€104.99
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 1050
BIC CODES:
THEMA CLASSIFICATION:
THEMAMQC

Easily master medical terminology with Chabner's proven method

KEY FEATURES

- **Simple, clear, easy-to-understand explanations of terms** enable readers with little or no previous medical or science background to easily grasp medical terms and concepts.
- **Clinical procedures and lab reports sections** show you how terminology is used in health care settings; updated by experts in each specialty to reflect current practice.
- **A wide variety of exercises** provide multiple opportunities to reinforce and remember content.
- **Clear illustrations and brilliant images of anatomy, physiology, and pathology** orient readers to the structure and function of the body system, providing the best context for learning the medical terms and helping you learn terminology more easily by understanding how it is used in practice.
- **Practical Applications** in each chapter (case reports, operative and diagnostic tests, laboratory, and x-ray reports) let you apply knowledge to situations that you will encounter in the clinical environment.
- **Actual clinical procedures and lab tests** are provided within body system or medical specialty chapters

DESCRIPTION

Effectively master medical terminology with Davi-Ellen Chabner's **The Language of Medicine, 13th Edition**. Centering on Chabner's proven method of learning medical terms by studying them in the context of the human body, this highly praised and bestselling text helps individuals of all educational backgrounds easily understand and remember important medical terminology by incorporating easy-to-follow explanations, relevant examples, and countless reinforcement exercises. This new edition also features additional clinical practice exercises; more medical procedure photos; timely content on immunity and vaccines, infection control, advances in cardiology, cancer research, emerging orthopedic treatments; and more. No matter where your career path takes you, Chabner's proven method for med term mastery will prepare you for success.



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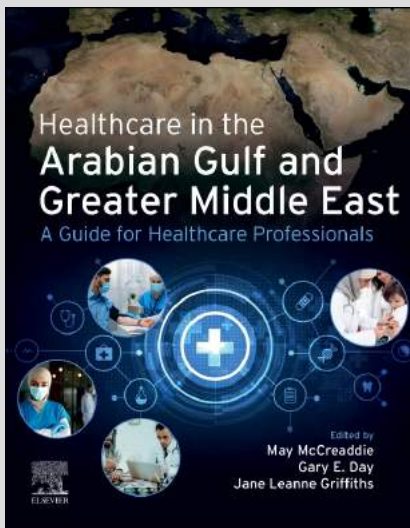


Health Professions II (HP2) Medical Terminology

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

Also includes resources via:





Healthcare in the Arabian Gulf and Greater Middle East: A Guide for Healthcare Professionals

Edited by: **May McCreaddie**, Phd, MEd, BA, PG Cert PE, RNT, RN, Senior Lecturer, School of Nursing and Midwifery, Royal College of Surgeons in Ireland Medical University of Bahrain, Bahrain.; **Gary Day**, Adjunct Professor, Health Services Management and Economics Gulf Medical University and **Jane Griffiths**

ISBN: 9780323833561

PUB DATE: Feb 01, 2024

LIST PRICE: £39.99 / \$49.99 / €46.99

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 342

AUDIENCE: Expatriate and Non-expatriate healthcare workers (nurses, allied health professionals, medics) intending to work or study - or currently working or studying - in the GCC or middle east. • "The GCC healthcare sector depends heavily on the expatriate workforce. This poses a challenge for the health care delivery system [22]. Saudi Arabia [78%] and UAE [85%] have the highest percentage of expatriate staff in the health sector [22-23]. Statistics reveal that only 3% of the 23,000 to 25,000 nurses in the country are Emirati [21-23]. Expatriate workforce is expensive and they either prefer to return to their home country after a few years of service or move to the developed countries [21-22]." Health Care in Gulf Cooperation Council Countries: A Review of Challenges and Opportunities, Cureus, Aug 2017. • In the MOH, which is the main provider of health care in Saudi Arabia, nurses number 55,429 (55.2%) of the total health workforce. Of these, 24,689 (44.5%) are Saudis, while the rest are expatriates (MOH 2008). The nursing profession in Saudi Arabia: an overview in International Nursing Review May 2011 • Using the above old data gives expat nursing numbers in the UAE of c. 24,000 in 2017 and in Saudi of c. 30,000, out of a total nursing population for both countries of c. 80,000. Adding in the other GCC countries and factoring in growth may give a total nursing market today of 150k of which maybe 80-90k are expat nurses. (Not inclusive of physicians.)

BIC CODES: MQC

THEMA CLASSIFICATION: THEMAMQCA



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Unique and comprehensive overview

KEY FEATURES

- Based on the latest evidence – provides a comprehensive overview of key healthcare challenges in region
- Features numerous Arabic contributors as well as non-Arabic contributors with experience and expertise in the region
- Key strategic, local and individual healthcare approaches – including a generic adaptable toolkit
- Short case studies and thinking grids for appropriate care
- Discussion of social, cultural and environmental perspectives specific to the region
- Easy to read and follow
- Highly practical – covers key topics including:
 - Islam and healthcare
 - pain management
 - palliative and end of life care
 - culturally competent communication
 - consumer-driven healthcare
 - the family in healthcare in the Arabian gulf
 - communicable and non-communicable diseases

DESCRIPTION

Healthcare in the Arabian Gulf and Greater Middle East is the first evidence-based, English-language textbook to provide a comprehensive overview of healthcare in this region, where health systems are rapidly evolving and feature large numbers of expatriate health professionals serving a population with diverse ethnic, social, cultural and environmental needs.

This unique book covers relevant research, conditions and appropriate interventions and treatment. Readers will gain an insight into the key health challenges of the region and how to approach them, as well as local healthcare structures and cultural considerations such as Islam and healthcare, culturally competent communication and the role of the family.

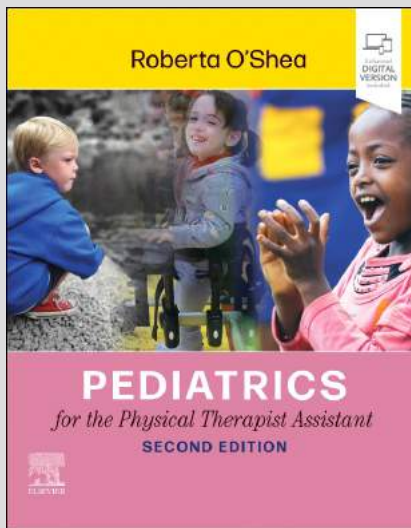
Written by experienced international and local academics and professionals, this book will be invaluable for students, healthcare professionals and anyone interested in working in this fascinating region.

Nursing UK Post - Registration

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

Also includes resources via:





Pediatrics for the Physical Therapist Assistant, 2e

Roberta O'Shea, PT, DPT, PhD, Professor, Physical Therapy Department, Governors State University, University Park, Illinois

ISBN: 9780323881425
PREVIOUS ISBN: 9781416047506
PUB DATE: Feb 01, 2024
LIST PRICE: £56.99 / \$69.99 / €66.99
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 333
AUDIENCE: Physical Therapy Assistant (PTA) students 374 accredited programs; 42 developing programs 12,478 students enrolled
BIC CODES: MQS
THEMA CLASSIFICATION: THEMAMQS

Master the physical therapist assistant's role in managing and treating pediatric conditions

KEY FEATURES

- **Consistent approach in Disorders chapters** first defines the disorder and then describes the pathology, clinical signs, and assessment and intervention, followed by a case study.
- **Case studies** provide examples of physical therapy applications, helping you build clinical reasoning skills as you connect theory to practice.
- **Format of case studies** each is summarized in the WHO model format to familiarize you with the standardized terminology used in practice. Most cases include movement systems analysis to introduce the most current clinical reasoning strategies encouraged by the APTA.
- **Special boxes** highlight important information with features such as *Clinical Signs*, *Intervention*, and *Practice Pattern*.
- **Learning features in each chapter** include key terms, a chapter outline, learning objectives, review questions and answers, illustrations, and summary tables.

DESCRIPTION

Master the PTA's role in treating and managing pediatric conditions! Comprehensive yet easy to understand, **Pediatrics for the Physical Therapist Assistant, 2nd Edition** provides the knowledge and skills you need to succeed both in the classroom and in clinical practice. The text guides you through a myriad of topics including child development, assessment tools, intervention principles, neurologic and muscular disorders, and congenital disorders such as Down Syndrome, along with other pediatric conditions including limb deficiencies and sports injuries. This edition adds six new chapters including a chapter introducing Movement Systems Analysis for pediatrics. From a team of expert contributors led by PT clinician/educator Roberta Kuchler O'Shea, this book teaches not only the lessons learned from textbooks and research but also from children and their families.



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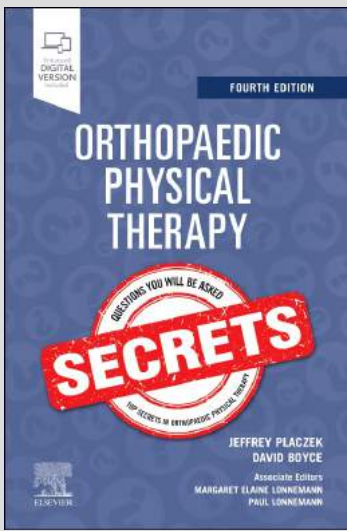


Health Professions I (HP1) Physical Therapy

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

Also includes resources via:





Orthopaedic Physical Therapy Secrets, 4e

Edited by: **Jeffrey D. Placzek**, MD, PT, Assistant Clinical Professor, Department of Physical Therapy, Oakland University, Rochester; Resident Physician, Department of Orthopaedic Surgery, William Beaumont Hospital, Royal Oak, Michigan and **David A. Boyce**, PT, EOD, OCS, ECS, Instructor, Physical Therapy Program, University of Louisville, Louisville, Kentucky

ISBN: 9780323846578
PUB DATE: Feb 01, 2024
LIST PRICE: £51.99 / \$63.99 / €60.99
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 736
AUDIENCE: Physical Therapy (DPT) students – 243 accredited programs; 17 developing programs; 31,380 students enrolled Physical Therapy clinicians [BLS, 2018] – Physical Therapists (DPT) – 239,000 jobs
There are 17,318 physical therapists who have achieved board certification as clinical specialists in Orthopaedics (the next highest specialty is Neuro with 3,401 specialists)
BIC CODES: MQS
THEMA CLASSIFICATION: THEMAMKZL

Unlock the secrets to passing the OCS examination with this comprehensive Q&A review

A Volume in the *Secrets* Series

KEY FEATURES

- **Coverage of topics found on the orthopedic specialty exam** makes this a valuable resource for study and review.
- **Wide scope of orthopedic coverage** includes specialties ranging from anterior knee pain to X-ray imaging, featuring topics such as therapeutic dry needling plus functional movement screening and assessment.
- **Annotated references** provide a useful tool for further reading and research.
- **Review questions** are consistent with the level of difficulty encountered on the orthopedic or sports specialty examinations.
- **Evidence-based content** is based on the latest orthopedic research.
- **Clinical tips** provide guidance for a variety of physical therapy tasks and situations.
- **Charts, tables, and algorithms** summarize information in logical, quick-reference frameworks.

DESCRIPTION

Unlock the secrets to passing the Orthopaedic Certified Specialist (OCS) exam with this comprehensive Q&A review! Offering a unique question-and-answer format, **Orthopaedic Physical Therapy Secrets, 4th Edition** helps you build the knowledge and skills needed to pass orthopaedic and sports certification specialty exams. The book introduces basic physical therapy concepts and then covers different healing modalities, clinical specialties, and orthopedic procedures typically prescribed for common injuries such as those to the shoulder, hand, wrist, spine, and knee. From a team of PT experts led by Jeffrey D. Placzek and David A. Boyce, this review also serves as a useful reference for practitioners who wish to provide the latest in evidence-based care.



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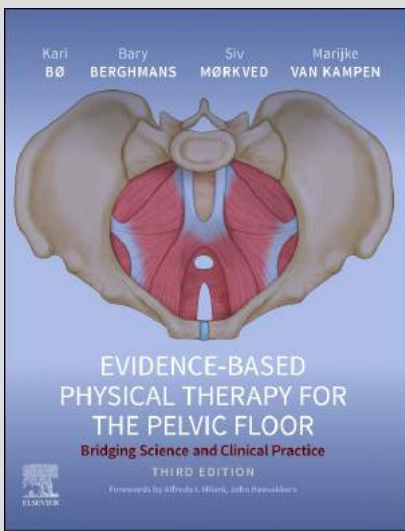


Health Professions I (HP1) Physical Therapy

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

Also includes resources via:





Evidence-Based Physical Therapy for the Pelvic Floor, 3e

Bridging Science and Clinical Practice

Kari Bo, Professor, PT, PhD, Exercise scientist, Norwegian School of Sports Sciences, Oslo, Norway; **Bary Berghmans**, PhD, MSc, RPt, Epidemiologist and Researcher, Maastricht University Pelvic Care Centre, Maastricht, The Netherlands; **Siv Morkved**, PT, MSc, PhD, Associate Professor and Senior Researcher, Department of Community Medicine & General Practice, Norwegian University of Science and Technology, Trondheim, Norway and **Marijke Van Kampen**, PhD, Professor in Rehabilitation Science, Katholieke Universiteit Leuven, Faculty of Kinesiology and Rehabilitation Science, University Hospital GHB, Leuven, Belgium

ISBN: 9780702083082
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PUB DATE: Oct 05, 2023
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DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 470
BIC CODES: MQV, MX, MQS, MQC
THEMA CLASSIFICATION:
THEMAMQS

A trusted resource for physiotherapists treating disorders of the pelvic floor

KEY FEATURES

- New and fully updated contents; new authors and new chapters provide contemporary evidence
- Innovative practice guidelines supported by a sound evidence base
- Colour illustrations of pelvic floor anatomy and related neuroanatomy/neurophysiology
- MRIs and ultrasounds showing normal and dysfunctional pelvic floor
- Key summary boxes for easy navigation
- Full colour throughout

DESCRIPTION

Written by leading experts in this field, *Evidence-Based Physical Therapy for the Pelvic Floor* provides physiotherapists and other professionals with knowledge and confidence to bring the latest evidence-based approaches and treatment strategies for addressing pelvic floor dysfunction to their practice.

Fully updated and with a wealth of new information, this edition includes sections on devices and apps, gynaecological cancer, sexual dysfunction, fistula, clinical use of EMG, anal incontinence and pain, as well as a discussion of sexualized violence by Nobel Peace Prize winner Denis Mugwege and his team.



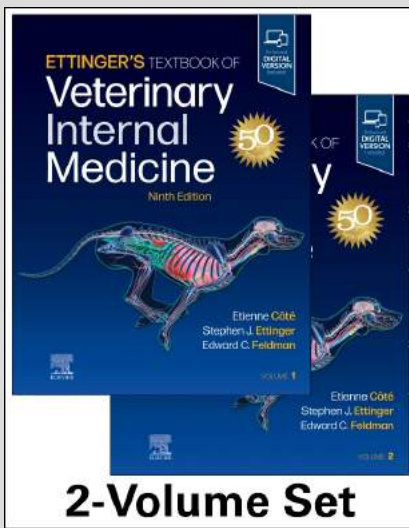
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Health Professions I (HP1) UK
Physical Therapy
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:





Ettinger's Textbook of Veterinary Internal Medicine, 9e

Edited by: **Stephen J. Ettinger**, DVM, DACVIM, Pet DRx Corporation, California Animal Hospital Veterinary Specialty Group, Los Angeles, CA; **Edward C. Feldman**, DVM, DACVIM, Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA and **Etienne Cote**, DVM, DACVIM (Cardiology and Small Animal Internal Medicine), Associate Professor, Department of Companion Animals, Atlantic Veterinary College, University of Prince Edward Island, Charlottetown, PE, Canada

ISBN: 9780323779319
PREVIOUS ISBN: 9780323312110
PUB DATE: Feb 16, 2024
LIST PRICE: £232.99 / \$322.99 / €271.99
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 2400
ILLUSTRATIONS: Approx. 1220 illustrations (1220 in full color)
BIC CODES: MZC
THEMA CLASSIFICATION:
THEMAMZC

Now Ettinger's trusted, all-in-one veterinary resource is even better! Trusted by small animal veterinarians for more than 45 years, Ettinger's Textbook of Veterinary Internal Medicine adds new content on the field's leading issues and trends to its unmatched, "gold standard" coverage of the diagnosis and treatment of medical problems of dogs and cats.



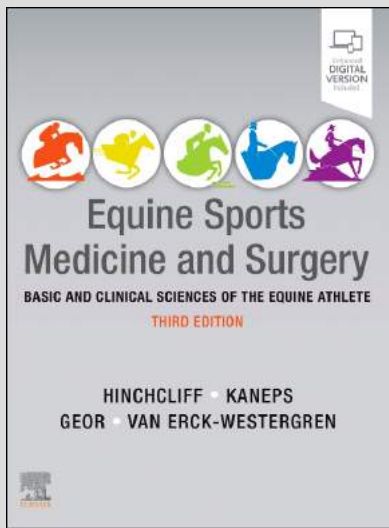
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Health Professions I (HP1)
Veterinary Medicine
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:





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**, BVSc, MVSc, PhD Diplomate, American College of Veterinary Internal Medicine (Large Animal) Diplomate, American College of Veterinary Nutrition (Honorary) Diplomate, American College of Veterinary Sports Medicine and Rehabilitation, Professor and Chairperson, Department of Large Animal Clinical Sciences, College of Veterinary Medicine, Michigan State University, East Lansing, MI, USA and **Emmanuelle Van Erck-Westergen**, DVM PhD DECEIM, Equine Sports Medicine Practice, Waterloo, Belgium

ISBN: 9780702083709
PREVIOUS ISBN: 9780702047718
PUB DATE: Feb 23, 2024
LIST PRICE: £199.99 / \$375.99 / €249.99
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 1360
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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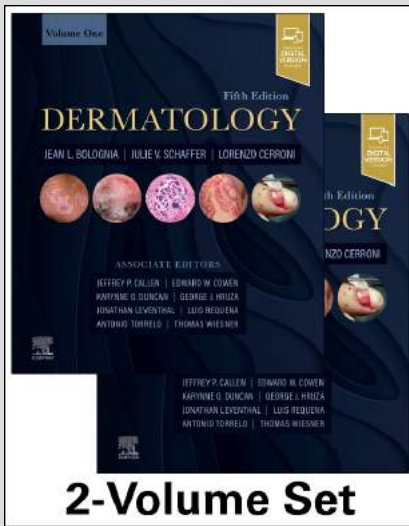


Health Professions I (HP1)
Veterinary Medicine

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

Also includes resources via:





Dermatology, 5e

2-Volume Set

Jean L. Bologna, MD, Professor of Dermatology, Yale Medical School, New Haven, CT, USA; **Julie V. Schaffer**, MD, Professor of Pediatrics, Hackensack Meridian School of Medicine, Hackensack, NJ, USA and **Lorenzo Cerroni**, Associate Professor of Dermatology, Director Research Unit Dermatopathology, Department of Dermatology, Medical University of Graz, Graz, Austria

ISBN: 9780702082252
PREVIOUS ISBN: 9780702062759
PUB DATE: Feb 15, 2024
LIST PRICE: £387.99 / \$479.99 / €452.99
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 2880
ILLUSTRATIONS: 7300
AUDIENCE: Dermatologists, dermatology residents
BIC CODES: MJK
THEMA CLASSIFICATION: THEMAMJK

The dermatology textbook you'll reach for again and again throughout training and clinical practice

KEY FEATURES

- **Simplifies complex content in a highly accessible, highly visual manner**, with 1,100+ tables; 2,600+ figures, including numerous disease classification algorithms as well as diagnostic and therapeutic pathways; and over 1,500 additional figures and tables online.
- Utilizes weighted differential diagnosis tables and a “ladder” approach to therapeutic interventions.
- Features an **intuitive organization** and **color-coded sections** that allow for easy and rapid access to the information you need.
- Retains an emphasis on **clinicopathologic correlations**, with photomicrographs demonstrating key histologic findings adjacent to clinical images of the same disorder.
- Contains **updated treatment information throughout**, including immune checkpoint inhibitors, JAK inhibitors, and monoclonal antibodies for a wide range of conditions such as psoriasis, atopic dermatitis, alopecia areata, vitiligo, and skin cancers.
- Provides **up-to-date information** on genetic and molecular markers and next-generation sequencing as it applies to dermatologists.
- Features **new videos**, including cryosurgical and suturing techniques, treatment of rhinophyma via electrosection, and neuromodulator treatment of axillary hyperhidrosis.

DESCRIPTION

For dermatology residents and trainees, as well as those in clinical practice, *Dermatology* is the leading reference for **understanding, diagnosing, and treating the full spectrum of skin disease**—and is the key resource that residents rely on throughout their training and certification. Widely recognized for its “**easy-in, easy-out**” approach, this revised 5th Edition **turns complex information into user-friendly visual content** through the use of clear, templated chapters, digestible artwork, and easy-to-follow algorithms and tables. This two-volume masterwork provides complete, authoritative coverage of basic science, clinical practice of both adult and pediatric dermatology, dermatopathology, and dermatologic surgery—more than any other source, making it **the gold standard reference in the field today**.



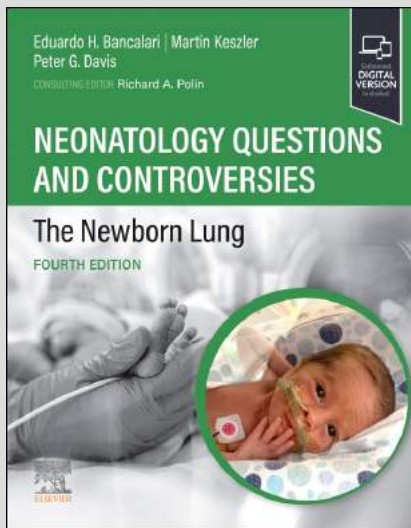
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Speciality Medicine Dermatology
<https://virtuale.elsevier.com>, www.elsevier.com

Also includes resources via:





Neonatology Questions and Controversies: The Newborn Lung, 4e

Edited by: **Eduardo Bancalari**, MD, Emeritus Professor of Pediatrics, Director Division of Neonatology, University of Miami School of Medicine, Miami, Florida; **Martin Keszler**, MD, Professor of Pediatrics, Alpert Medical School of Brown University and Associate Director of NICU and Director of Respiratory Services, Women and Infants Hospital of Rhode Island, Providence, Rhode Island; **Peter G Davis**, Professor and Director of Neonatal Medicine, Royal Women's Hospital, University of Melbourne, Victoria, Australia and **Richard A. Polin**, MD, Director, Division of Neonatology and Perinatology, Professor of Pediatrics, Columbia University Medical College

ISBN: 9780323878746

PREVIOUS ISBN: 9780323546058

PUB DATE: Feb 01, 2024

LIST PRICE: £72.99 / \$89.99 / €84.99

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 402

AUDIENCE: neonatologists, neonatal nurse practitioners, pediatricians

BIC CODES: MJW

THEMA CLASSIFICATION:

THEMAMKDN; THEMAMFC

Stay up to date with the most challenging aspects of neonatal care

A Volume in the *Neonatology: Questions & Controversies* Series

KEY FEATURES

The thoroughly updated, full-color, 4th Edition of The Newborn Lung:

- Provides a clear management strategy for reducing lung damage and long-term sequelae in extremely premature infants, offering guidance based on the most up-to-date understanding of underlying pathophysiology.
- Places emphasis on controversial areas that can entail different approaches.
- Features the most current clinical information throughout, with an emphasis on those areas where there have been major new developments in recent years.
- Includes new chapters on Perinatal Nutrition and the Lung; Caffeine: Respiratory Stimulant or Magic Bullet?; Lung Ultrasound and Electrical Impedance Tomography; New Lung Imaging Techniques: CT, MRI and Other Modalities; Alveolar Homeostasis and Chronic Lung Disease; and Fetal Intervention in Congenital Malformations of the Respiratory System.

Purchase each volume individually, or get the entire 7-volume Neonatology Questions and Controversies set, which includes online access that allows you to search across all titles!

- Gastroenterology and Nutrition
- Hematology and Transfusion Medicine
- Neonatal Hemodynamics
- Infectious Disease, Immunology, and Pharmacology
- Renal, Fluid, and Electrolyte Disorders
- Neurology
- The Newborn Lung

DESCRIPTION

Dr. Richard Polin's Neonatology Questions and Controversies series highlights the toughest challenges facing physicians and care providers in clinical practice, offering trustworthy guidance on up-to-date diagnostic and treatment options in the field. In each volume, renowned experts address the clinical problems of greatest concern to today's practitioners, helping you handle difficult practice issues and provide optimal, evidence-based care to every patient.



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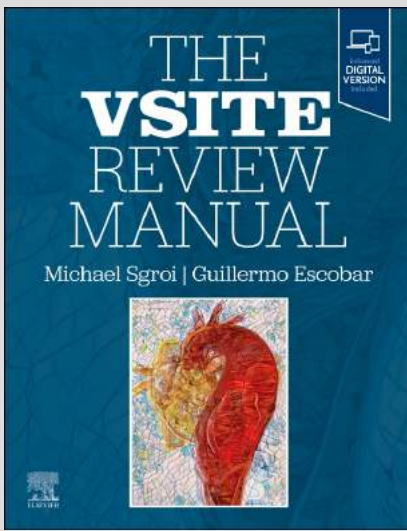


Speciality Medicine Peds

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

Also includes resources via:





The VSITE Review Manual

Edited by: **Michael D. Sgroi**, MD, Assistant Clinical Professor of Vascular Surgery, Associate Program Director, Vascular Surgery Residency and Fellowship Program, Stanford University, Stanford, California and **Guillermo A. Escobar**, MD, Associate Professor of Surgery, Vascular Surgery Program Director, Emory University School of Medicine, Atlanta, Georgia

ISBN: 9780323875882

PUB DATE: Jan 03, 2024

LIST PRICE: £67.99 / \$83.99 / €79.99

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 290

AUDIENCE: Vascular trainees, both in residency and fellowship. Each year more residencies are opening, increasing the volume of potential buyers.

BIC CODES: MNC

THEMA CLASSIFICATION:
THEMAMN

Master the content you need to know for success on the VSITE

KEY FEATURES

- Offers a condensed, high-yield source of critical information for vascular surgery residents and fellows, as well as for practicing surgeons who are preparing for the recertification exam.
- Uses an easy-to-read outline and list format to help you find information quickly and retain what you read and review.
- Features quick-references tables, images, and self-assessment questions that enhance and highlight the need-to-know information in this unique review tool.
- Provides a strong knowledge foundation in vascular surgery, helping you increase your confidence as you prepare for the VSITE.
- 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.

DESCRIPTION

Spend more time studying the most important exam topics, and less time searching for them! The VSITE Review Manual is a succinct, high-yield resource designed to help you make the most of your preparation for this challenging exam. This streamlined, focused review tool makes it easy to find the essential information on each topic you need to master for success on the VSITE.



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

Also includes resources via:





Bio-inoculants in Horticultural Crops

Advances in Bio-inoculant Sciences, Volume 3

Edited by: **Amitava Rakshit**, Faculty Member, Department of Soil Science and Agricultural Chemistry, Institute of Agricultural Sciences, Banaras Hindu University, India; **Vijay Singh Meena**, Project Coordinator, IBorlaug Institute for South Asia (BISA)-CIMMYT, Pusa, Samastipur, Bihar, India; **Leonardo Fernandes Fraceto**, PhD, Associate Professor, Institute of Science and Technology, Sao Paulo State University (UNESP), Sao Paulo, Brazil; **Manoj Parihar**, Scientist, Crop Production Division, ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Uttarakhand, India; **Adalberto Benavides-Mendonza**, Department de Horticultura, Universidad Autonoma, Calzada Antonio Narro, Saltillo, Mexico and **H.B. Singh**, Professor and Ex Head, Department of Mycology and Plant Pathology, Institute of Agricultural Sciences, Varanasi, India

ISBN: 9780323960052
PUB DATE: Nov 01, 2023
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 400
AUDIENCE: Researchers, academics and advanced level students in sustainable horticultural and agricultural sciences, and plant microbiology
BIC CODES: TVK, PSG, TVS, PSB
THEMA CLASSIFICATION: THEMAPSG; THEMATVK; THEMAPST; THEMATVS; THEMAPSB

Explores real-world applications of novel microbes through comprehensive information on various biological approaches

KEY FEATURES

- Provides microbial tools and techniques for the sustainable production of horticulture crops under various production systems
- Explains the action mechanism and application methodology of microbial inoculants and their interaction with plants
- Identifies future avenues for research and developments
- Includes extensive illustrations

DESCRIPTION

Bio-inoculants in Horticultural Crops, Volume Three in the *Advances in Bio-inoculant Sciences* series, focuses on real-time application of novel microbes that have been proven to enhance and improve plant health and productivity. The book provides comprehensive information on a range of biological approaches and mechanisms for the improvement of horticultural crops being practiced in different production systems. Covering the subject from historical developments to recent advances in microbial interventions, it addresses the potential role and bio-mechanism of bio-inoculants for challenges including stress tolerance, production, commercialization, application methodology, challenges and future roadmap for sustainable production system of horticultural crops.

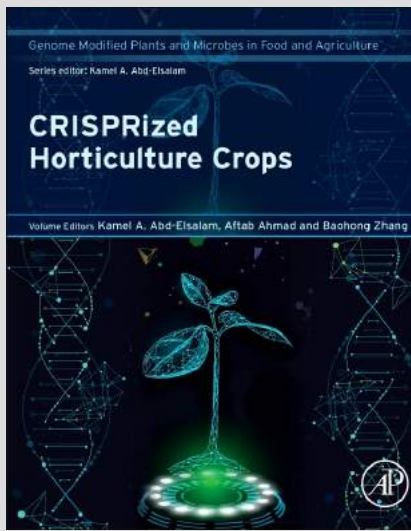
This volume will be useful to scientists, academicians, and students of horticulture, agriculture microbiology, plant protection, and other related subjects.



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FOOD SCIENCE, TECHNOLOGY & NUTRITION
<https://virtuale.elsevier.com>, www.elsevier.com



CRISPRized Horticulture Crops

Genome Modified Plants and Microbes in Food and Agriculture

Edited by: **Kamel A Abd-Elisalam**, Molecular Plant Pathologist, Plant Pathology Research Institute, Agricultural Research Center, Giza, Egypt; **Aftab Ahmad**, Biochemistry/Center for Advanced Studies in Agriculture and Food Security (CASAFS), University of Agriculture, Faisalabad, Pakistan and **Baohong Zhang**, Full Professor, East Carolina University, Greenville, NC, USA

ISBN: 9780443132292
PUB DATE: Feb 01, 2024
LIST PRICE: £205.00 / \$250.00 / €240.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 640

AUDIENCE: Researchers, academics and advanced students in plant science, biology, plant science, microbiology, plant physiology, biotechnology

BIC CODES: KNAC, PSAK, TVK, TCB

THEMA CLASSIFICATION:

THEMATCB; THEMAKNA; THEMAMSAK; THEMATVK

Presents the latest on CRISPR technology applications, along with insights for developing improved horticultural crops

KEY FEATURES

- Reviews CRISPR for editing horticultural crops
- Discusses vector transformation methods, epigenome, deep learning, synthetic biology and precision breeding
- Includes bioinformatics and large-scale databases
- Contributes engineering approaches for crop improvement programs

DESCRIPTION

CRISPRized Horticultural Crops: Genome Modified Plants and Microbes in Food and Agriculture summarizes applications of CRISPR/Cas systems and its advanced variants e.g., CRISPR/Cpf1, base editing and prime editing, for precise editing of horticultural crops. The book discusses vector transformations methods, epigenome, deep learning, synthetic biology, and precision breeding for improving yield and quality related attributes in horticultural crops. With coverage of the relevant technologies and their applications, the book also includes bioinformatics and large-scale databases and their potential application in fruits, vegetables and ornamental plants and sections on regulatory concerns related to CRISPR edited crops.

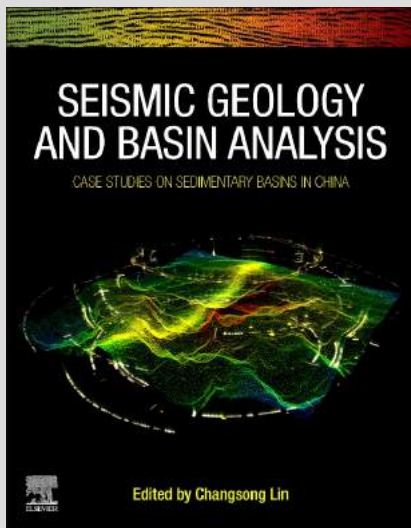
Horticultural crops, including fruit, vegetable and ornamental plants are an important component of agriculture production systems and play an important role in sustaining human life.



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FOOD SCIENCE, TECHNOLOGY & NUTRITION
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Seismic Geology and Basin Analysis

Case Studies on Sedimentary Basins in China

Edited by: **Changsong Lin**, Professor of Geology, China University of Geosciences, Beijing, China

ISBN: 9780323959094
PUB DATE: Nov 01, 2023
LIST PRICE: £134.00 / \$165.00 / €160.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 370
AUDIENCE: Students and researchers in petroleum geology; oil and gas industry
BIC CODES: KNAT, THFP, RBC
THEMA CLASSIFICATION: THEMATHFP; THEMAKNB; THEMARBC

Comprehensive coverage on the basic principles of seismic geology, basin analysis and seismic data calibrated with well log, cores and outcrop profiles

KEY FEATURES

- Examines the adoption of seismic techniques into basin analysis and broadens the usage of seismic data in geological research
- Includes seismic, well log, core and outcrop data, as well as high resolution 3D seismic profiles and slices
- Features case studies to further illustrate principles and approaches described in the book, which can be applied to similar basins around the world

DESCRIPTION

Seismic Geology and Basin Analysis: Case Studies on Sedimentary Basins in China introduces the principles, approaches and techniques needed to solve problems using seismic data calibrated with well log, cores and outcrop profiles. The book emphasizes the adoption of seismic techniques into basin analysis and broadens the usage of seismic data in geological research which may be referred to as "seismic geology." The principle of the book is mainly summarized from a series of case studies in different basins in China. In addition, through this book readers can understand the primary characteristics and basin fill evolution of major petroleum basins around the world.

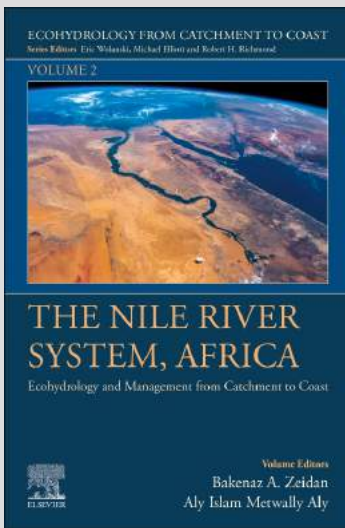
When starting research on a basin, researchers and professionals are confronted with how to reveal the general architecture of basin fills and depict three-dimensional geometry, and the internal architecture of subsurface depositional bodies and their arrangement, hence this book is a great tome on necessary areas of exploration.



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EARTH & ENVIRONMENT Applied Geoscience
<https://virtuale.elsevier.com>, www.elsevier.com



The Nile River System, Africa

Ecohydrology and Management from Catchment to Coast

Edited by: **Bakenaz A. Zeidan**, Head of Irrigation and Hydraulics, Department of Faculty of Engineering, Tanta University, Egypt and **Aly Islam Metwally Aly**, Aly Islam Metwally Aly is professor in Environmental Chemical Engineering at the Atomic Energy Authority, Nasr City, Cairo, Egypt.

ISBN: 9780323901222
PUB DATE: Feb 01, 2024
LIST PRICE: £115.00 / \$150.00 / €131.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 340
AUDIENCE: Academics and water resources managers, fishery experts, aquatic scientists, social scientists
BIC CODES: RN
THEMA CLASSIFICATION: THEMATQ

An integrated and holistic accounting of very significant reform in the Nile river system, along with global adoption implications

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

KEY FEATURES

- Provides a basis for improved environmental management of the Nile River basin from its headwaters to the Mediterranean Sea
- Presents a multidisciplinary approach, covering both environmental and societal needs
- Includes case studies from this diverse river that can be applied globally

DESCRIPTION

The Nile River System, Africa: Ecohydrology and Management from Catchment to Coast, Volume Two provides a critical synthesis of knowledge for an important global region. It covers water availability and needs in the Nile basin, focusing on socioeconomic, hydrological and ecological aspects and the catchment-coast continuum, also providing the information needed to develop a policy for the river that is less skewed toward immediate human needs and more focused on environmental impacts. Readers will find ecological perspectives, recent stresses, the current status of the basin, and more.

The greater integration of ecological and river management themes is the main strength of this book, making it a strong reference for academics and water resources managers, as well as fishery experts, aquatic scientists and social scientists.

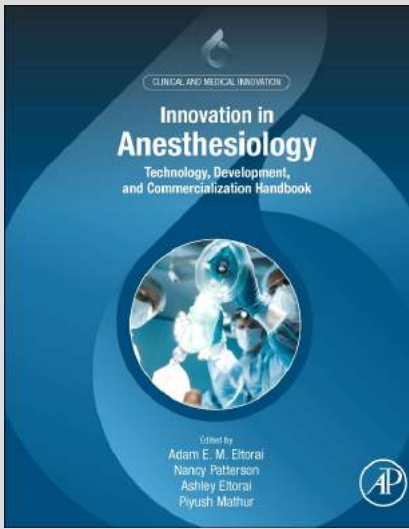


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EARTH & ENVIRONMENT

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Clinical and Medical Innovation in Anesthesiology

Technology, Development, and Commercialization Handbook

Ashley Eitorai, 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. Eitorai**, Brown University Warren Alpert Medical School, Marlborough, MA, USA

ISBN: 9780128183816
PUB DATE: Dec 01, 2023
LIST PRICE: £91.95 / \$120.00 / €105.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 200
AUDIENCE: Biomedical engineers, graduate students, researchers, and clinicians 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

Clinical and Medical Innovation in Anesthesiology: Technology, Development, and Commercialization reflects recent trends of industry globalization and value-conscious healthcare. Written by a team of medical, engineering and business experts, this book provides a clear process for the identification, invention and implementation of new solutions in anesthesiology. Readers will gain practical advice, as well as examples of both successful and failed case studies. This is the ideal resource for anesthesiology clinicians, students and researchers who not only want to bring patient use and application to their inventions but also understand all steps needed to bring an idea for technical innovation to market.



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ENGINEERING Biomedical

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

COVER IMAGE
FORTHCOMING

Medical and Surgical Therapy for Advanced Heart Failure in the Modern Era

Edited by: **Arman Kilic**, Director, Surgical Quality and Analytics for University of Pittsburgh
Division of Cardiac Surgery, USA

ISBN: 9780128244449

PUB DATE: Feb 01, 2024

LIST PRICE: £135.00 / \$175.00 /
€155.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 400

AUDIENCE: Healthcare professionals, including both heart failure cardiologists as well as general cardiologists, cardiac surgeons, primary care physicians, medical and surgical residents and fellows, and medical students, Cardiovascular researchers needing clinical background for areas they are researching, particularly in basic science

BIC CODES: PSA

THEMA CLASSIFICATION:
THEMAPS

A comprehensive and in-depth review of medical and surgical therapy for advanced heart failure, with a particular focus on modern advancements

KEY FEATURES

- Provides a broad yet in-depth review of topics related to advanced heart failure
- Presents an up-to-date review of the many recent and significant advancements in the field that are changing how we treat patients with advanced heart failure
- Touches upon controversial topics in the field, including viewpoints from renowned experts

DESCRIPTION

Medical and Surgical Therapy for Advanced Heart Failure in the Modern Era provides a comprehensive and in-depth review of important topics in both medical and surgical therapy of heart failure, with a special focus on recent and significant advancements in the field. Sections review updated epidemiology, pathophysiology and clinical approaches to advanced heart failure, medical and surgical therapies, and controversies and modern advancements in the field. Topics include advancements in our understanding and treatment of patients supported with ventricular assist devices, including protocols for gastrointestinal bleeding, blood pressure management, anticoagulation practices, and management of valvular disease during LVAD support.

The book includes the use of Entresto, a novel agent used in heart failure and the use of remote monitoring such as the Cardiomems system. From a surgical standpoint, there are new technologies in this space, including fully implantable LVADs on the horizon, and the Sherpapak system for maintaining cold temperature during donor organ transport.

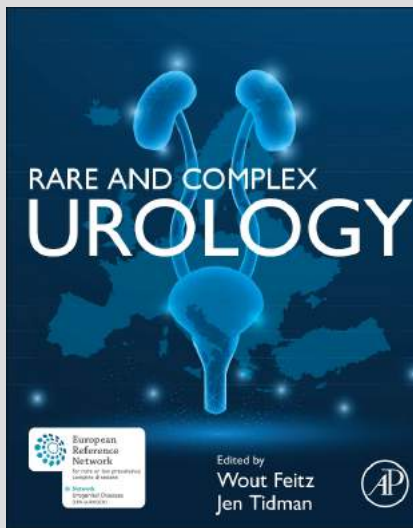


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LIFE SCIENCES Medical

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



Rare and Complex Urology

Edited by: **Wout Feitz**, Professor of Pediatric Urology, Department of Urology, Radboudumc Amalia Children's Hospital, Nijmegen, The Netherlands and **Jen Tidman**

ISBN: 9780323999342
PUB DATE: Feb 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 300
ILLUSTRATIONS: Approx. 100 illustrations (100 in full color)
AUDIENCE: Clinicians and basic scientists interested in translational urology and surgery, including urologists, paediatric surgeons, and multidisciplinary team members seeking guidance on how to implement novel research
BIC CODES: PSA
THEMA CLASSIFICATION: THEMAPS

Comprehensive overview of current state research, diagnosis, and treatment within rare and complex urology

KEY FEATURES

- Provides a foundation for many rare urogenital diseases and complex conditions with contributions from high-volume centres monitored by ERN eUROGEN.
- Combines in-depth research findings with clinical information to supply state-of-the-art care solutions for rare and complex aspects of urology.
- Removes the uncertainty of managing rare and complex urogenital cases and variations in practice.

DESCRIPTION

Rare and Complex Urology has been produced by the European Reference Network (ERN) for rare urogenital diseases and complex conditions, ERN eUROGEN.

The book combines information on network developments and clinical and surgical aspects, allowing for better diagnoses, treatments, and patient outcomes.

The expertise areas covered include those relating to the bladder, stone and kidney diseases, congenital malformations, pelvic floor disorders, the urethra, reconstruction, and rare cancers and tumours.

This is a must-have reference for clinicians and basic scientists interested in translational urology and surgery, including urologists, paediatric surgeons, and multidisciplinary team members seeking guidance on how to implement novel research.



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LIFE SCIENCES Medical

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Aging

How Aging Works, How We Reverse Aging, and Prospects for Curing Aging Diseases

Edited by: **Michael Fossel**, MD, PhD, President, Telocyte, MI, USA

ISBN: 9780443155000

PUB DATE: Feb 01, 2024

LIST PRICE: £126.00 / \$165.00 / €143.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 230

AUDIENCE: Researchers and clinicians interested in furthering and utilizing effective interventions for age-related disease. Biotechnology companies and investors interested in funding biotechnology on this topic

BIC CODES: PSA

THEMA CLASSIFICATION:
THEMAPS

Provides a clear, realistic, and promising explanation of aging and elucidates the implications for effective clinical interventions to diseases

KEY FEATURES

- Provides researchers and clinicians interested in furthering and utilizing effective interventions for age-related disease with a comprehensive resource on the topics covered
- Ideal for biotechnology companies and investors interested in funding biotechnology on this topic
- Explains the simplified “wear-and-tear” of aging beyond entropy to expose it as a complicated process

DESCRIPTION

Aging: How Aging Works, How We Reverse Aging, and Prospects for Curing Aging Diseases explains the simplified “wear-and-tear” of aging beyond entropy to expose it as a complicated process. With solid academic approach, this book builds upon the substantial work published over the past 16 years, citing the newest data, up-to-date models based upon that data, and implications for improved clinical care, including recent developments in gene and cell therapy. Coverage delves into age-related diseases, including neurodegenerative, cardiovascular, bone and joints, immune system, and skin. Future directions of the field are discussed among interventions where a summary of previous attempts to intervene in aging and age-related disease are discussed. This is the perfect reference for scientists and researchers interested in the basic translational research opportunities such as drug discovery, pharmacogenetics, and experimental therapeutics, as well as clinicians interested in how AI applications are integrated with applications to focus on digital pathology and personalized medicine.

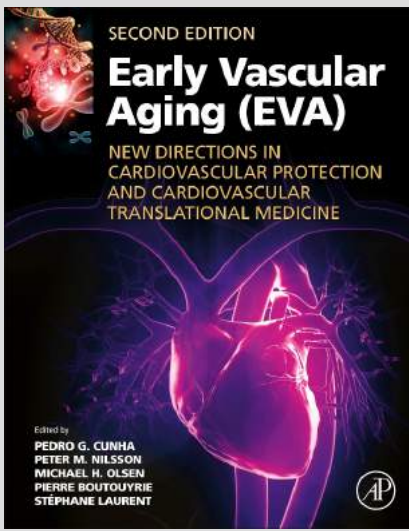


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LIFE SCIENCES Medical

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



Early Vascular Aging (EVA), 2e

New Directions in Cardiovascular Protection

Edited by: **Pedro Guimarães Cunha**, Visiting Professor at the School of Medicine, University of Minho, Portugal; **Pierre Boutouyrie**, Full Professor of Pharmacology and Cardiology, University Paris Descartes Sorbonne, Paris, France; **Michael Hecht Olsen**, Professor, University of Southern Denmark and Odense University Hospital, Odense C, Denmark; **Peter M Nilsson**, Professor of Cardiovascular Research, consultant, Department of Clinical Sciences, Lund University, Sweden and **Stéphane Laurent**, Head, Department of Clinical Pharmacology, Hôpital Européen Georges- Pompidou, Paris, France

ISBN: 9780443155123
PREVIOUS ISBN: 9780128013878
PUB DATE: Feb 01, 2024
LIST PRICE: £130.00 / \$170.00 / €148.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 510
AUDIENCE: Basic scientists, translational scientists, clinical researchers and clinicians in the cardiovascular field
BIC CODES: MJX, MJD
THEMA CLASSIFICATION: THEMAMKN; THEMAMJD

A comprehensive look at early vascular aging (EVA), its link to arterial stiffness, and other age-related changes in the vascular tree

KEY FEATURES

- Contains all the relevant information available on the main paradigm shifts in vascular aging research, from different fields of knowledge (from basic biology to epidemiology)
- Reviews the most prominent evidence produced on early vascular aging (EVA), highlighting recent research advances, clinical applications, and research opportunities
- Formulates, in each chapter, a set of research questions that need to be addressed, challenging the vast research community to take on new directions and collaborations

DESCRIPTION

Early Vascular Aging (EVA): New Directions in Cardiovascular Protection, Second Edition continues to be the most comprehensive and authoritative resource on premature alterations in artery structure and function. The book presents a novel approach to the problem of cardiovascular disease, showing it in relation to great vessels disease and revealing a comprehensive approach to the problem of increased rigidity of the great vessels, its causes, and further consequences. This second edition contains completely updated content with expanded coverage of basic and translational research, systematic reviews of the most prominent literature, discussion of applicability of new evidence and more. Written by an international team of clinicians and researchers, this is a valuable resource to basic and translational scientists, clinical researchers and clinicians in the cardiovascular field interested in prevention, diagnosis and treatment of EVA.

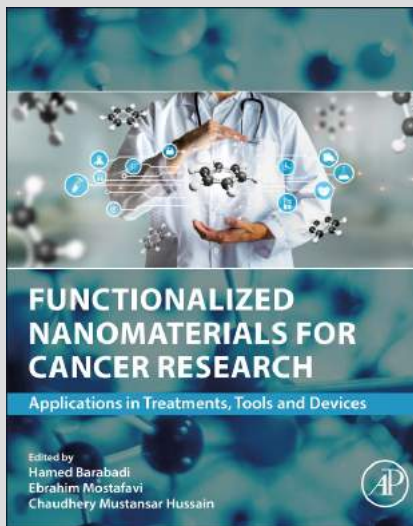


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LIFE SCIENCES Medical

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Functionalized Nanomaterials for Cancer Research

Applications in Treatments, Tools and Devices

Edited by: **Hamed Barabadi**, Assistant Professor, Department of Pharmaceutical, Shahid Beheshti University, Iran; **Ebrahim Mostafavi**, Stanford Cardiovascular Institute, Stanford University School of Medicine, Stanford, CA, USA and **Chaudhery Mustansar Hussain**, Adjunct Professor, New Jersey Institute of Technology (NJIT)

ISBN: 9780443155185
PUB DATE: Feb 01, 2024
LIST PRICE: £138.00 / \$180.00 / €160.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 465
AUDIENCE: Graduate students and researchers in cancer research, oncologists. Researchers in nanomedicine, clinicians
BIC CODES: MJCL
THEMA CLASSIFICATION: THEMAMJCL

Discusses the potential of functionalized nanomaterials for cancer research and therapy

KEY FEATURES

- Provides comprehensive coverage on functionalized nanomaterials for cancer therapeutics and future developments
- Explores current trends on functionalized nanomaterials for cancer research and commercial scale opportunities
- Discusses real-world case studies on functionalized nanomaterials for cancer therapy and research

DESCRIPTION

Functionalized Nanomaterials for Cancer Research: Applications in Treatments, Tools and Devices presents an in-depth and step-by-step description of knowledge on functionalized nanomaterials for cancer research, including treatment and future developments as well as their impact on patients' overall outcomes. The book discusses functionalized nanoplateforms for cancer detection and imaging, interactions between nanomaterials and cancer cells, and drug resistant malignancies. The book's chapters are organized in a manner that can be readily adopted as sources for new and further studies by highlighting the main in vitro and in vivo nano-therapeutic achievements on cancer.

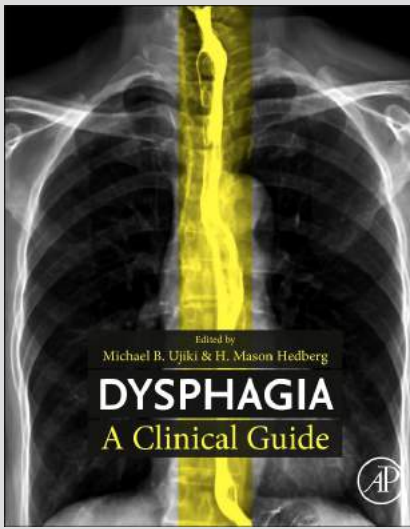
Additionally, current trends on functionalized nanomaterials for cancer research and commercial scale opportunities are discussed. This is a valuable resource for researchers, oncologists, students, and members of the biomedical and medical fields who want to learn more about the potential of nanotechnology in cancer research and treatment.



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Dysphagia

A Clinical Guide

Edited by: **Michael B. Ujiki**, Vice Chair of Surgery for Innovation and Program Development, Chief of Gastrointestinal and General Surgery, Director of Minimally Invasive Surgery, and Director of Surgical Simulation, NorthShore's Grainger Center for Simulation and Innovation, USA and **H. Mason Hedberg**, Northshore University Health Systems, IL, USA

ISBN: 9780443190636
PUB DATE: Feb 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 330
AUDIENCE: Gastroenterologists (physicians and researchers) and foregut surgeons General surgeons and practitioners
BIC CODES: PSA
THEMA CLASSIFICATION: THEMAPS

Provides comprehensive coverage on dysphagia and its diagnosis and management

KEY FEATURES

- Allow practitioners to stay up-to-date on the most current and effective management strategies for dysphagia
- Provides a comprehensive picture of swallowing difficulty, from mouth to stomach
- Contains recommendations on how to use research in the diagnosis and treatment of dysphagia

DESCRIPTION

Dysphagia: A Clinical Guide will help practitioners and surgeons learn and understand how best to diagnose and treat dysphagia. It provides a complete picture of dysphagia through the experiences of leaders who cover the latest techniques and evidence-based outcomes in the field. Coverage includes recent advances in the diagnosis and treatment of the disease processes that cause dysphagia, gastric problems, and surgical intervention. The book includes the latest research and perspectives from both gastroenterologists and surgeons to enable clinicians to stay up-to-date on the most current and effective management strategies. Each chapter provides summary statements and recommendations based on recent literature. Recent discoveries regarding the diagnosis and management of dysphagia are exemplified by illustrations of both diagnostic methods and descriptions of interventional techniques. This an important reference for general surgeons, general practitioners, and ENT surgeons while also bringing new data dedicated specifically to gastroenterologists and foregut surgeons.



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COVER IMAGE
FORTHCOMING

$\gamma\delta$ T Cell Cancer Immunotherapy

Evidence-Based Perspectives for Clinical Translation

Edited by: **Marta Barisa**, University College London, Experimental Paediatric Oncology Research Group and Allogeneic Immunotherapy Research Group Zayed Centre for Research, Great Ormond Street Hospital, University College London Great Ormond Street Institute of Child Health, London, UK

ISBN: 9780443217661

PUB DATE: Feb 01, 2024

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

DISCOUNT:

FORMAT: Hardback

TRIM:

PAGES: c. 266

AUDIENCE: Cancer researchers, medical oncologists, clinicians, pharmacologists, translational investigators, immunologists, immunotherapists, scientists and clinicians interested in allogeneic adoptive cell therapy, medical students, translational research students, academic institution libraries, commercial developers of $\gamma\delta$ T cell immunotherapy

BIC CODES: PSA

THEMA CLASSIFICATION: THEMAPS

Provides comprehensive insights into the current state of $\gamma\delta$ T cell immunotherapy

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

KEY FEATURES

- Addresses the possible advantage of combining $\gamma\delta$ T cell-based immunotherapy with conventional chemotherapy or other therapeutic approaches, such as antiangiogenic drugs
- Provides an up-to-date, well-rounded discussion of a translationally, commercially, and scientifically relevant field
- Enables users to familiarize themselves with an overview of the most important aspects of the field with ease or gain an up-to-date objective perspective on various aspects of the field
- Includes helpful illustrative diagrams covering the breadth of the field as carried out by leading experts

DESCRIPTION

$\gamma\delta$ T Cell Cancer Immunotherapy: Evidence-Based Perspectives for Clinical Translation discusses the current pre-clinical and clinical $\gamma\delta$ T cell landscape. The book not only focuses on the promises of what's to come, but also on the challenges faced by the field. Particular attention is given to summarizing recent advances on what is known about relevant areas of $\gamma\delta$ T cell biology on summarizing the 'big picture' clinical situation, an up-to-date systematic clinical trial review covering autologous, allogeneic, engineered and non-engineered therapies, and perspectives on the types of cutting-edge gene-engineering that may be required to enhance the effect-size and durability of therapeutic efficacy. Content provides updated and comprehensive insights into the current state of $\gamma\delta$ T cell immunotherapy, including discussions on the promise as well as challenges of the field that is of interest to existing translational $\gamma\delta$ T cell specialists, the proliferating range of academic scientists and commercial scientists entering the field, as well as clinicians who may encounter $\gamma\delta$ T cell immunotherapy in the clinic or are wishing to familiarize themselves with non-canonical lymphocyte immunotherapy.

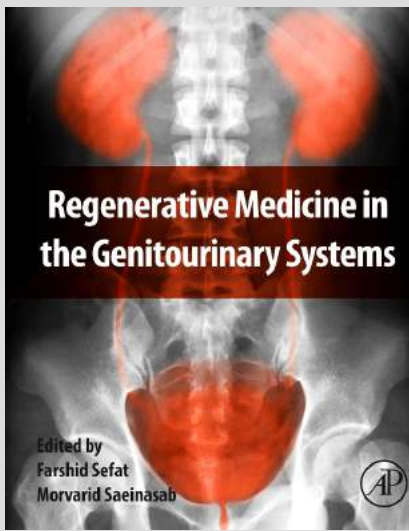


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Regenerative Medicine in the Genitourinary System

Edited by: **Farshid Sefat**, Associate Professor, Biomedical and Electronic Engineering Department, University of Bradford, UK and **Morvarid Saeinasab**, Research Associate, Faculty of Biology Medicine and Health, University of Manchester, Manchester, United Kingdom

ISBN: 9780443158346
PUB DATE: Feb 01, 2024
LIST PRICE: £134.00 / \$175.00 / €155.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 256

AUDIENCE: Regenerative Medicine Scientists and Researchers, Tissue Engineering Students and Academia, Biomaterials Scientists and Researchers, Medical Educators, Surgeons interested in research and regenerative medicine, U/G and P/G Students in Biomedical Engineering and Biomaterials, Pharmaceutical industry, U/G and P/G Students studying/researching in Chemistry, Materials, Medicine, and Pharmacy, Pharmacologist

BIC CODES: PSA

THEMA CLASSIFICATION: THEMAPS

A single resource for those researching and studying regenerative medicine in the genitourinary system

KEY FEATURES

- Provides extensive principles of tissue engineering in urinary and reproductive systems
- Presents excellent examples of tissue engineering and regenerative medicine (translational medicine) to tackle diseases and disorders related to the urinogenital system
- Includes chapters covering erectile dysfunction, as well as tissue engineering strategies to treat male and female infertility

DESCRIPTION

Regenerative Medicine in the Genitourinary System gives the reader a comprehensive overview of tissue engineering used to treat genitourinary disorders and infertility, also providing a great learning platform for researchers in different fields such as cell biology, pharmaceuticals, clinicians, chemists, material scientists, and more. The book covers the latest innovations on the subject, but also acts as a resource for tissue engineering applications and regenerative medicine. Over the last several decades, tissue engineering has continued to make considerable advancements in therapeutic and clinical strategies that address male/female urological or genitourinary diseases.

Although several articles have been published on this topic, there are very few book chapters and no single book currently available dedicated to this topic.

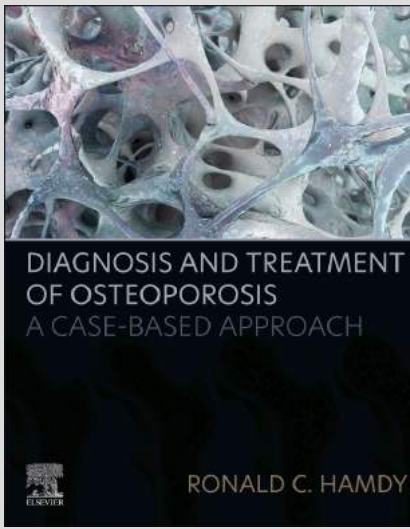


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Diagnosis and Treatment of Osteoporosis

A Case-Based Approach

Ronald C. Hamdy, professor of Medicine, holder of the Cecile Cox Quillen Chair of Excellence in Geriatric Medicine and director of the Osteoporosis Center at East Tennessee State University. He is the Editor-in-Chief of the Journal of Clinical Densitometry, the official Journal of the International Society for Clinical Densitometry.

ISBN: 9780323995504
PUB DATE: Dec 01, 2023
LIST PRICE: £127.00 / \$165.00 / €144.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 280
AUDIENCE: Clinicians, Internists, Family physicians, Physician assistants, Nurse practitioners, Physicians in training: residents and fellows, Endocrinologists, Gynaecologists, Orthopaedic surgeons, Rheumatologists, Medical and nursing students
BIC CODES: MJG
THEMA CLASSIFICATION: THEMAMJG; THEMAMFGM

Helps providers improve the clinical outcomes of osteoporotic patients with this self-learning, modular, case-based program

KEY FEATURES

- Includes key points at the end of each chapter to provide a succinct summary of each clinical issue
- Provides multiple-choice questions as an interesting way of testing one's knowledge on the particular issue discussed in the chapter
- Presents tables and diagrams to elucidate the knowledge outlined in the chapter
- Devotes a section to therapeutics and an analysis of the results of pivotal and key studies listed in a comparable visual format

DESCRIPTION

Diagnosis and Treatment of Osteoporosis: A Case-Based Approach is a practical guide that will be useful to a wide range of practicing and in-training clinicians, including physicians, nurse practitioners and physician assistants. With its clinical case and scenario-based approach, readers can quickly decide which clinical problem to address such as the management of osteoporosis of a particular clinical problem (Atypical femoral shaft fractures, Glucocorticoids and bone health, etc.). Each chapter is self-contained with a list of objectives at the beginning and a presentation of clinical cases that encourages self-learning to non-specialized clinical staff. This book is easily accessible to non-specialists, allowing any healthcare provider to learn how to diagnose and manage osteoporosis in the context of their practice.

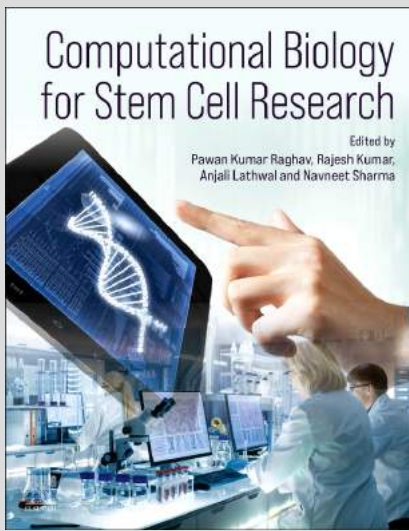


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Computational Biology for Stem Cell Research

Edited by: **Pawan Raghav**, BioExIn, Delhi, India; **Rajesh Kumar**, PhD, BioExIn, Delhi, India; **Anjali Lathwal**, PhD, Researcher, Department of Computational Biology, Indraprastha Institute of Information Technology (IIIT), New Delhi, India and **Navneet Sharma**, PhD, Scientist, Institute of Information Technology (IIT), Delhi, India

ISBN: 9780443132223
PUB DATE: Feb 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 698
AUDIENCE: Researchers, Industry partners, post-graduate students in stem cells, regenerative medicine and those involved in computational biology and bioinformatics
BIC CODES: PSA, MBF
THEMA CLASSIFICATION: THEMAPS; THEMAPSAX

A single resource providing basic information about computational tools for those in the field of biomedical sciences

KEY FEATURES

- **Modeling Stem Cell Behavior:** Explore stem cell behavior through animal models, bridging laboratory studies to real-world clinical allogeneic HSC transplantation (HSCT) scenarios.
- **Bioinformatics-Driven Translational Research:** Navigate a path from bench to bedside with cutting-edge bioinformatics approaches, translating computational insights into tangible advancements in stem cell research and medical applications.
- **Interdisciplinary Resource:** Discover a single comprehensive resource catering to biomedical sciences, life sciences, and chemistry fields, offering essential insights into computational tools vital for modern research.

DESCRIPTION

Computational Biology for Stem Cell Research seamlessly bridges the gap between the worlds of biomedical sciences and *in silico* computational methods. This book serves as a valuable resource for researchers and students, enabling them to grasp and delve into the intricacies of hematopoietic Stem Cells (HSCs) and mesenchymal Stem Cells (MSCs) through the lens of computational biology. This perspective sheds light on stem cell transplantation, translational research, and unique properties of stem cells like self-renewal and differentiation. In addition to introducing readers to stem cell-focused bioinformatics tools, this resource offers a clear pathway for effortlessly merging *in silico* methods with traditional *in vitro* and *in vivo* approaches.

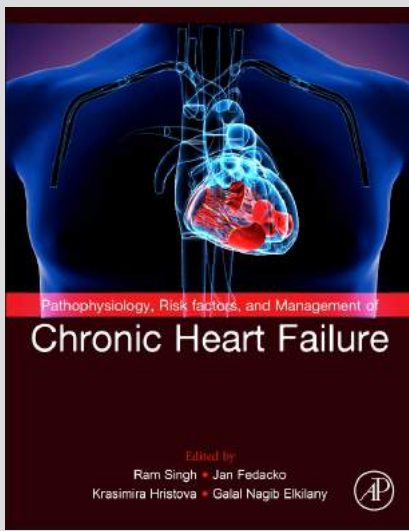
Computational Biology for Stem Cell Research combines science and technology to showcase how computational methods transform stem cell research by reducing costs and enhancing investigations. The chapters uncover various approaches, from machine learning to genome analysis, for studying networks, protein interactions, dynamics, and the preprocessing of large datasets. The book aims to give readers a broad view of the advanced computational tools and methods extensively employed in stem cell research. Additionally, the book emphasizes the ongoing studies and tools yet to be developed for furthering stem cell research.



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Pathophysiology, Risk Factors, and Management of Chronic Heart Failure

Edited by: **Ram B. Singh**, Consultant Neuro-cardiologist, Halberg Hospital and Research Institute, Moradabad-10(UP), India; **Jan Fedacko**, Associate Professor, 3rd Interna Clinic, Faculty of Medicine, PJ Safaric University, Kosice, Slovakia; **Krasimira Hristova**, Associated Professor of Cardiology, National Heart Hospital, Sofia, Bulgaria and **Galal Eldin Nagib Elkilany**, Assistant Clinical Professor of Cardiology, Gulf Medical University, UAE

ISBN: 9780128229729
PUB DATE: Feb 01, 2024
LIST PRICE: £127.00 / \$165.00 / €144.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 400

AUDIENCE: Cardiologists, echocardiographers, researchers, physicians, biochemists, pharmacologists, pharmacists, nutrition scientists, dietitians, experts developing guidelines, endocrinologists, nephrologists, neurologist, neuro-endocrinologists, community medicine and public health workers and policy makers

BIC CODES: PSA

THEMA CLASSIFICATION: THEMAPS

Provides a comprehensive overview on the epidemiology, classification, molecular mechanisms, pathophysiology, causes, identification and interactions of Chronic Heart Failure (CHF)

KEY FEATURES

- Includes a number new and controversial topics: Roles of both behavioural and nutritional risk factors in CHF; considering behavioural intervention which may change the remodelling, as well as nutrient supplementation or change of diet in preventing CHF or converting resistant HF in to HF responding to therapy; Evidence-based knowledge on CHF, with an emphasis on viewing CHF as a disease of the brain and contribution from other systems; Pre-Heart failure which can be prevented to restore normal cardiomyocyte function; Pathogenesis of HF in chronic kidney disease; 2D and 3D speckle tracking echocardiography
- Includes never-published tables and figures to aid understanding of the topics
- Contributions from international leading experts in the field, written with the aim of serving both researchers and practicing clinicians

DESCRIPTION

Chronic Heart Failure: Pathophysiology, Risk Factors, and Mechanisms aims to provide an inclusive overview on Chronic Heart Failure (CHF).

This book is focused on the epidemiology, classification, molecular mechanisms, pathophysiology, causes, identification and interactions of heart failure. It will explain the uncertainties and issues in Heart Failure by helping readers understand the physiopathology of CHF in the light of behavioural risk factors. 2D and 3D speckle tracking echocardiography have been used to quantify regional alterations of longitudinal strain and area strain, through their polar projection, which allows a further evaluation of both the site and extent of myocardial damage. The analysis of strain can identify subclinical cardiac failure (myocyte remodelling) which is a major issue in CHF. Myocardial Strain, measure by speckle tracking echocardiography, is frequently attenuated in these conditions and can be utilized for the evaluation of disease progression and the effect of therapeutic interventions as well as prevention because it could be a manifestation of behavioural risk factors.

This title will function as an essential reference to both researchers and practicing clinicians, proposing novel methods of research by using behavioural and environmental risk factors as intervention agents, as well as discussing deficiency in the present approaches in management of HF and proposing new methods of early diagnosis and therapies for the clinical management of CHF.



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YOGA FOR
CARDIOVASCULAR
DISEASE AND
REHABILITATION

Integrating Complementary
Medicine into Cardiovascular Medicine



Indranill Basu Ray



Yoga for Cardiovascular Disease and Rehabilitation

Integrating Complementary Medicine into Cardiovascular Medicine

Indranill Basu Ray, MD, Cardiologist and Interventional Cardiac Electrophysiologist, Memphis VA Medical Center and Adjunct Professor, The University of Memphis, TN, USA

ISBN: 9780323996457
PUB DATE: Dec 01, 2023
LIST PRICE: £123.00 / \$160.00 / €139.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 350
AUDIENCE: Cardiologists and researchers with an interest in innovative and integrative approaches in health and medicine
BIC CODES: PSA
THEMA CLASSIFICATION: THEMAPS

Brings together current research in cardiovascular diseases with yoga and meditation as a preventive and therapeutic entity

KEY FEATURES

- Highlights recent research, clinical trials and experiments on yoga and meditation as a preventative measure against various cardiovascular problems
- Covers all major heart diseases, including hypertension, hyperlipidemia, coronary artery disease, metabolic syndromes, and more
- Adopts a translational approach, exploring the cellular, genetic and molecular effects of yoga on health based on the latest research evidence

DESCRIPTION

Yoga in Cardiovascular Disease and Rehabilitation: Integrating Complementary Medicine into Cardiovascular Medicine highlights recent research, clinical trials and experiments on yoga and meditation as a preventative measure against various major cardiovascular diseases, including hypertension, hyperlipidemia, coronary artery disease and metabolic syndromes. Chapters discuss yoga's role in ameliorating cardiac dysfunction and current knowledge on the effects of yoga on the brain, emotion, and other factors that initiate and perpetuate vascular inflammation. Cellular, genetic, and molecular effects of yoga based on experimental evidence are also covered in detail, providing readers with the latest research on the effects of yoga and meditation in heart diseases.

This book also explores current knowledge gaps in yoga research to facilitate further research and is a comprehensive reference to scientists and clinicians interested in yoga's health effects, including preventing and treating diseases.

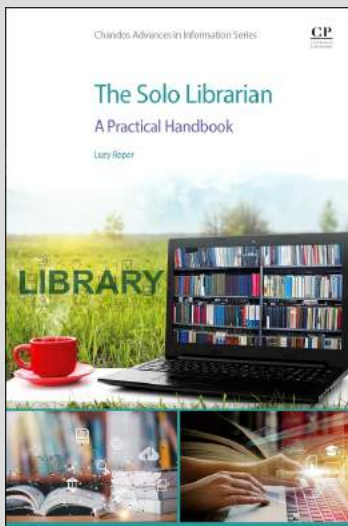


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The Solo Librarian

A Practical Handbook

Lucy Roper, BSc (Hons) Physical Education, Sports Science and Recreation Management, Loughborough University, 1995 MBA, University of Reading, 2003 MCILIP, Chartered Institute of Library and Information Professionals, 2021 AFHEA, AdvanceHE (formerly Higher Educat, University College of Estate Management, UK.

ISBN: 9780443157950

PUB DATE: Apr 01, 2024

LIST PRICE: £75.00 / \$94.99 / €88.99

DISCOUNT:

FORMAT: Paperback

TRIM:

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

- Relays the lessons the author has learned while creating and sharing guidance that will assist others finding themselves in a similar role and/or a small team
- Provides a logical process for creating library provision and the services involved
- Includes a timeline of activities, guidance, and templates that can be downloadable (via the eBook version) and can be adapted and utilized further to help aid daily activities and processes

DESCRIPTION

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.

The idea behind this practical handbook is to provide guidance and templates to cover responsibilities, challenges, benchmarking, acquisitions, classification, archiving, copyright management, and so much more.

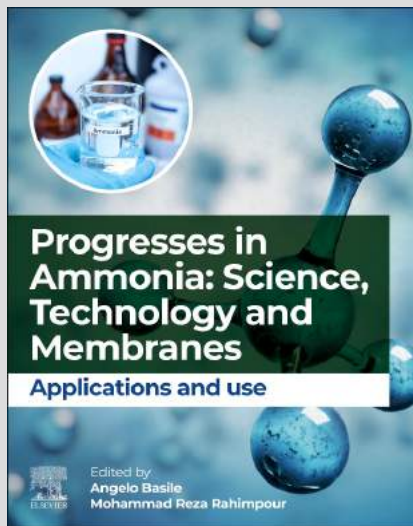


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LIBRARY & INFORMATION STUDIES

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Progresses in Ammonia: Science, Technology and Membranes

Applications and use

Edited by: **Angelo Basile**, R&D Manager, ECO2Energy (Rome) and Hydrogenia (Genoa) and Department of Engineering, University Campus Bio-medical, Rome, Italy and **Mohammad Reza Rahimpour**, Professor, Department of Chemical Engineering, Shiraz University, Shiraz, Iran

ISBN: 9780323885010
PUB DATE: Feb 01, 2024
LIST PRICE: £180.00 / \$230.00 / €200.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 450

AUDIENCE: Reviews the applications and use of ammonia in many aspects of industry

BIC CODES: TDCB

THEMA CLASSIFICATION:

THEMATDC

Reviews the applications and use of ammonia in many aspects of industry

KEY FEATURES

- Covers various applications of ammonia as an energy source and as an alternative power generation
- Discusses ammonia applications in various chemical and petrochemical plants
- Describes novel and non-industrial usages of ammonia, such as human care and treatment

DESCRIPTION

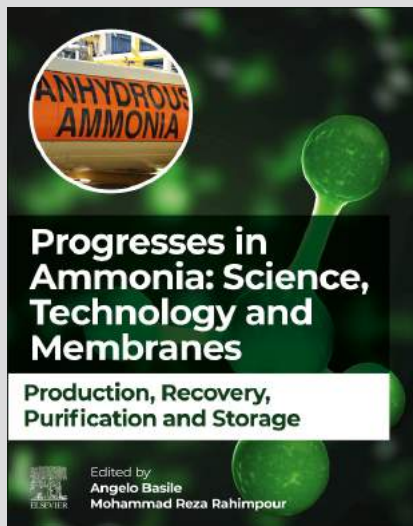
Progresses in Ammonia: Science, Technology and Membranes: Applications and Use covers various ammonia applications such as in sensors and devices, in dyes and cleaning, in cooling systems, in desalination, in anaerobic digestion, in terrestrial vegetation, in fabric, textile and leather products, in metals heat-treating, in acid deposition, in carbon dioxide capture, in the hydrogen production, storage and generation.



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CHEMISTRY Chemical Engineering
<https://virtuale.elsevier.com>, www.elsevier.com



Progresses in Ammonia: Science, Technology and Membranes

Production, Recovery, Purification and Storage

Edited by: **Angelo Basile**, R&D Manager, ECO2Energy (Rome) and Hydrogenia (Genoa) and Department of Engineering, University Campus Bio-medical, Rome, Italy and **Mohammad Reza Rahimpour**, Professor, Department of Chemical Engineering, Shiraz University, Shiraz, Iran

ISBN: 9780323885164
PUB DATE: Feb 01, 2024
LIST PRICE: £180.00 / \$230.00 / €200.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 376

AUDIENCE: Post-graduates students and researchers in chemical engineering and chemistry interested in ammonia production and uses.

Energy producers, utilities, distribution; Chemical industrial plants

BIC CODES: TDCB

THEMA CLASSIFICATION:

THEMATDC

Covers ammonia synthesis, production, recovery, storage and transportation as well as ammonia detection and measurement, ammonia emission, atmospheric transport, and more

KEY FEATURES

- Describes various roots/feedstocks of producing ammonia, including conventional and renewable sources
- Discusses conventional and novel technologies for ammonia synthesis and the role of catalysts
- Covers different storage, transportation and detection techniques of ammonia and their environmental challenges

DESCRIPTION

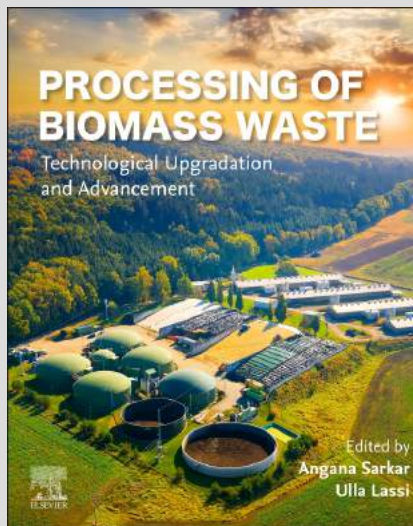
Progresses in Ammonia: Science, Technology and Membranes: Production, Recovery, Purification and Storage is a collection of various chapters concerning the aspects of Ammonia synthesis (Haber-Bosch process, Electrochemical synthesis, Thermal coupling, etc.), production (Photocatalytic from amino acid-based biomass, Small-scale renewable-powered, etc.), Recovery (from wastewater and radioactive wastewater, etc.), storage and transportation (handling, shipping), and also others such as Ammonia detection and measurement, Ammonia: emission, atmospheric transport and deposition, Ammonia absorption into alkaline earth metal halide mixtures, and Ammonia and conventional engine fuels.



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CHEMISTRY Chemical Engineering
<https://virtuale.elsevier.com>, www.elsevier.com



Processing of Biomass Waste

Technological Upgradation and Advancement

Edited by: **Angana Sarkar**, Assistant Professor, Department of Biotechnology and Medical Engineering, National Institute of Technology, Rourkela, India and **Ulla Lassi**, Professor in Applied Chemistry and Process Chemistry, Head of the Research Unit of Sustainable Chemistry, University of Oulu, Finland

ISBN: 9780323951791
PUB DATE: Feb 01, 2024
LIST PRICE: £180.00 / \$230.00 /
€200.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 480

AUDIENCE: Researchers, Bioprocess Engineers, Environmentalists, Microbiologists, Biotechnologists, Bioenergy Sectors Environmental Engineers, Waste Treatment Engineers and Managers, Environmental Health and Risk Scientists, Environmental Chemists and Scientists, Environmental Science Managers, Agriculture sectors, Policy makers, Administrators, Environmental Consultants, Industry Persons governing and regulating bio-based industries, Postgraduate and Doctoral Level Students working on remediation of toxic contaminants from environment

BIC CODES: TDCB, TDC, TC

THEMA CLASSIFICATION:
THEMATDC

Addresses recent advancement of the transformation of diverse waste biomass into a wide range of marketable products

KEY FEATURES

- Includes cutting-edge technologies in waste bioprocessing
- Focuses on applications of molecular biotechnological tools in waste bioprocessing
- Provides natural and eco-friendly solutions to deal with the problem of pollution aiming value generation
- Details underlying mechanisms of waste bioprocessing approaches that cover microbes for the simultaneous value generation and removal of emerging contaminants
- Includes field studies on the application of biorefinery approach for eco-restoration of contaminated sites
- Presents recent advances and challenges in waste bioprocessing research and applications for sustainable development

DESCRIPTION

Processing of Biomass Waste: Technological Upgradation and Advancement focuses on the exploitation of various waste management technologies and their associated process (microbial/chemical/physical) as tools to simultaneously generate value during treatment processes, including degradation/detoxification/stabilization toxic and hazardous contaminants. The book explores wastes as a veritable resource for wealth creation, with particular focus on resources recoverable from diverse wastes using special intervention of biotechnological tools. Other sections highlight recent technologies of waste bioprocessing in biorefinery approaches and enlighten on different approaches.

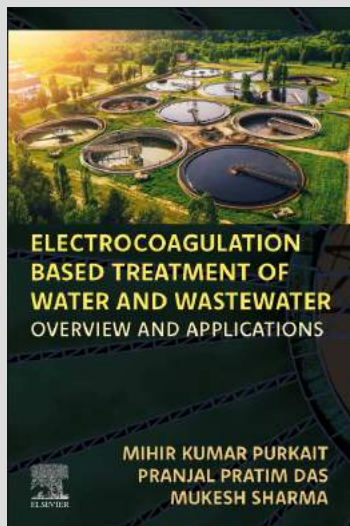
The book encompasses advanced and updated information as well as future directions for young researchers and scientists who are working in the field of waste management, with a focus on sustainable value generation.



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CHEMISTRY Chemical Engineering
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Electrocoagulation Based Treatment of Water and Wastewater

Overview and Applications

Mihir Kumar Purkait, Professor, Department of Chemical Engineering, Dean, Alumni and External Affairs, Chair Professor, National Jal Jeevan Mission, Govt. of India, Indian Institute of Technology, Guwahati, Assam, India; **Pranjal Pratim Das**, Research Scientist, Department of Chemical Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, India and **Mukesh Sharma**, Research Scientist, Department of Chemical Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, India

ISBN: 9780443138928
PUB DATE: Feb 01, 2024
LIST PRICE: £170.00 / \$220.00 / €195.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 279
AUDIENCE: Postgrad students, researchers, academicians and industry professionals working in the field of water treatment technology
BIC CODES: TC, TDCB
THEMA CLASSIFICATION: THEMATDC

Provides a comprehensive and dedicated source of information on different field studies involving water and wastewater treatment using electrocoagulation

KEY FEATURES

- Focuses on the global scenario of water purification, its types, and characteristics along with different water treatment processes, including the electrocoagulation techniques
- Reviews current treatment techniques for the remediation of drinking water and wastewater
- Provides real-life applications on the treatment of drinking and industrial wastewater across the globe via standalone and hybrid electrocoagulation techniques
- Features techno-economic and environmental analysis, along with challenges and future recommendations related to electrocoagulation and its hybrid-based techniques

DESCRIPTION

Electrocoagulation Based Treatment of Water and Wastewater: Overview and Applications is a concise presentation of different real-life applications on the electrocoagulation treatment process involved in the removal of harmful contaminants from both drinking and industrial wastewater. Chapters focus on the global scenario of water purification, its types, and characteristics, along with different water treatment processes, including the electrocoagulation technique. The book explains both the foundational information and state-of-the-art topics involved in the treatment of water and wastewater using electrocoagulation and its hybrid techniques in an easy-to-understand manner. The experimental studies conducted across the globe, along with their associated challenges and the possible solutions are explored, starting from the basics and gradually progressing towards the advanced level of the subject. In an organized manner, the book addresses both the standalone and hybrid electrocoagulation-based techniques established for water and wastewater treatment in real life applications. Readers will acquire in-depth knowledge on the field of drinking and industrial wastewater treatment from its basics to the current research accomplishments.



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CHEMISTRY Chemical Engineering
<https://virtuale.elsevier.com>, www.elsevier.com

COVER IMAGE
FORTHCOMING

The Organic Chemistry of Drug Design and Drug Action, 4e

Richard B. Silverman, Ph.D Organic Chemistry, Northwestern University, Evanston, IL, USA;
Mark W. Holladay, Ambit Biosciences, San Diego, CA, USA; Jose I Juncosa and Fengtian Xue

ISBN: 9780443158629

PREVIOUS ISBN: 9780123820303

PUB DATE: Feb 01, 2025

LIST PRICE: £76.95 / \$99.95 / €86.95

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 0

AUDIENCE: Undergraduate and graduate students in chemistry studying medicinal chemistry or pharmaceutical chemistry Research chemists and biochemists working in pharmaceutical and biotechnology industries

BIC CODES: MMG, PNN, TDCW, KNDP

THEMA CLASSIFICATION: THEMAMKG; THEMAPPNN

A unique approach to medicinal chemistry based on physical organic chemical principles and reaction mechanisms.

KEY FEATURES

- All chapters are updated and readability is improved by reorganizing and expanding major topics.
- Figures have been extensively updated and refreshed throughout and are now presented in full color.
- Case studies and up-to-date examples are included throughout the text with new figures and schemes to make the book engaging for today's student.
- PowerPoint slides with clicker questions and a test bank are new to this edition to enhance the teaching experience.

DESCRIPTION

The Organic Chemistry of Drug Design and Drug Action, Fourth Edition, represents a unique approach to medicinal chemistry based on physical organic chemical principles and reaction mechanisms that rationalize drug action, which allows reader to extrapolate those core principles and mechanisms to many related classes of drug molecules. This new edition includes updates to all chapters, including new examples and many new figures. It reflects significant changes in the process of drug design over the last decade and preserves the successful approach of the previous editions while including significant changes in format and coverage. This text is designed for undergraduate and graduate students in chemistry studying medicinal chemistry or pharmaceutical chemistry; research chemists and biochemists working in pharmaceutical and biotechnology industries.



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CHEMISTRY Organic Chemistry
<https://virtuale.elsevier.com>, www.elsevier.com



Sample Handling and Trace Analysis of Pollutants, 2e

Innovations to Determine Organic Contaminants

Edited by: **Damia Barcelo**, Professor, Institute of Environmental Assessment and Water Research, Spain and **Yolanda Pico**, Full Professor, Food and Environmental Safety Research Group, University of Valencia, Spain

ISBN: 9780323856010
PREVIOUS ISBN: 9780444543592,
9780444828316
PUB DATE: Apr 01, 2024
LIST PRICE: £195.00 / \$250.00 /
€220.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 1088
AUDIENCE: Postgraduate students,
environmental chemists and analytical
chemists, Environmental laboratories,
laboratories of official environmental
controls, universities
BIC CODES: PNFS, PNF, RN
THEMA CLASSIFICATION:
THEMAPNF; THEMAPNFS;
THEMAPNC

Guide on the technologies and challenges used in trace analysis of environmental pollutants, from selecting the approach, to procedures, measuring and reporting

KEY FEATURES

- Includes discussions on techniques such as chromatography coupled to mass spectrometry and emerging areas in nanotechnology, immunoassays and biosensors
- Covers the characteristics, advantages, limitations and potential of each technique, along with current strategies in each method's development and validation
- Outlines practical solutions to challenging problems in the analysis of pollutants in environmental matrices, including how to combine techniques for improved efficacy

DESCRIPTION

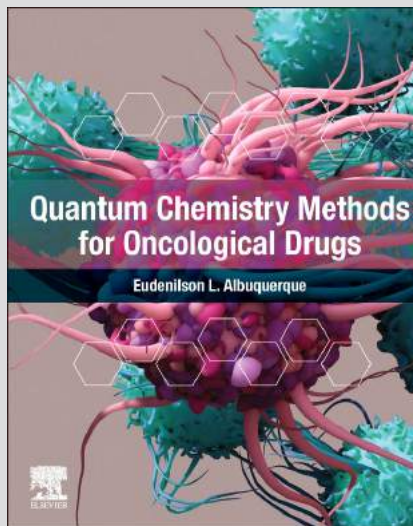
Sample Handling and Trace Analysis of Pollutants: Innovations to Determine Organic Contaminants, Second Edition reviews the latest technologies and challenges in trace analysis of environmental pollutants, from selecting the right approach to tips for performing analytic procedures and measuring and reporting results. Written by internationally renowned experts in environmental analysis from 5 continents and edited by leaders in the field, this completely updated and revised volume presents the latest techniques developed over the past 10 years, such as high-resolution mass spectrometry, biosensors and imaging techniques. Important tools for problem-solving in the determination of environmental pollutants are also discussed. Chapters cover emerging pollutants in the environment, such as nanomaterials, microplastics, metabolites and/or transformation products and antimicrobial resistances. Specific sections describe field sampling techniques and sample preparation in environmental matrices: air, water, soil, sediment and biota, focus on passive samplers, cover the determination of these environmental contaminants based on analytical techniques, such as the use of gas chromatography and liquid chromatography coupled to mass spectrometry, immunoassays, and biosensors as well as advanced analytical methods such as imaging techniques.



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CHEMISTRY Analytical Chemistry
<https://virtuale.elsevier.com>, www.elsevier.com



Quantum Chemistry Methods for Oncological Drugs

Eudenilson L. Albuquerque, Universidade Federal do Rio Grande do Norte (UFRN), Natal-RN, Brazil

ISBN: 9780443155307

PUB DATE: Feb 01, 2024

LIST PRICE: £155.00 / \$200.00 /

€175.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 256

AUDIENCE: Graduate students, faculty members and other researchers in physics, chemistry, biology, pharmacology, and medicine. It will be useful in providing instructional material in these areas, as a review of the field of study, and/or as a comprehensive reference. It is not primarily intended as a course textbook, but it could be used as such for graduate level courses on specialized topics in related areas

BIC CODES: PNRP, MMG, KNDP

THEMA CLASSIFICATION: THEMAMK; THEMAMKG; THEMAMND

THEMA CLASSIFICATION: THEMAMK; THEMAMKG; THEMAMND

THEMA CLASSIFICATION: THEMAMK; THEMAMKG; THEMAMND

THEMA CLASSIFICATION: THEMAMK; THEMAMKG; THEMAMND

Provides a comprehensive text for student, researchers, and academic staff, working in the field of Nanobiotechnology, who have interest in understanding the unique inter-relationship of the physical, chemical, and biological properties of oncological drugs, addressing questions in which detailed analysis and precise predictions are always required

KEY FEATURES

- Comprehensive and up-to-date account of the main physical, chemical, biological, and pharmaceutical properties of oncological drugs and their interactions, using a theoretical/computational framework based on quantum chemistry
- Focuses on an exciting and dynamic area of research, not only in the academic world but also in the Nanobiotechnology industry
- Strong multidisciplinary content: the immediate future of pure and applied scientific research undoubtedly points to the interconnection and complementarity between different areas

DESCRIPTION

Quantum Chemistry Methods for Oncological Drugs provides a comprehensive reference text for student, researchers, and academic staff across disciplines working in the field of Nanobiotechnology, who need to grasp the unique inter-relationship of the physical, chemical, and biological properties of oncological drugs and their interactions. It provides a theoretical/computational framework based on quantum chemistry and addresses key questions in which detailed analysis and precise predictions are always required.

The sophisticated molecular recognition of various natural biological materials has been used in the formation of a complex network of structures potentially useful for a variety of pharmaceutical applications. They offer solutions to many of the obstacles that need to be overcome, with accuracy not feasible with the technologies usually available in materials science. Important common challenges presented in this book are aspects related to the biology of cancer using our immunological checking points, specialized proteins that act as brakes in the immune system, allowing it to recognize and attack more efficiently only the cancer cells, avoiding the destruction of healthy cells as in conventional chemotherapy and radiotherapy treatments.

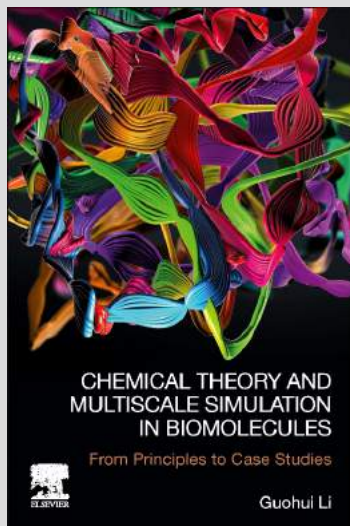
This book is devoted to this burgeoning area of Nanobiotechnology for oncological drugs and will be valuable in covering the new developments that have occurred in the last decade or so. It is aimed at graduate students, faculty members and other researchers in physics, chemistry, biology, pharmacology, and medicine.



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CHEMISTRY Physical and Theoretical Chemistry
<https://virtuale.elsevier.com>, www.elsevier.com



Chemical Theory and Multiscale Simulation in Biomolecules

From Principles to Case Studies

Guohui Li, Dalian Institute of Chemical Physics, Dalian, China

ISBN: 9780323959179
PUB DATE: Nov 01, 2023
LIST PRICE: £165.00 / \$200.00 / €190.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 330
AUDIENCE: Anyone who wants to engage in theoretical calculation and molecular simulation of biological macromolecules, including students and researchers across chemistry, biology, medicine, and physics
BIC CODES: PHVN, PNR
THEMA CLASSIFICATION: THEMAPHVN; THEMAPNR

Provides insights into molecular simulation methods for the study of biomolecules, outlining key methods and examples of their use in practice

KEY FEATURES

- Presents computational theory alongside case studies to help readers understand the use of simulation in practice
- Includes extensive examples of different types of simulation methods and approaches to result analysis
- Provides an overview of the current academic frontier and research challenges, encouraging creativity and directing attention to current problems

DESCRIPTION

Chemical Theory and Multiscale Simulation in Biomolecules: From Principles to Case Studies helps readers understand what simulation is, what information modeling of biomolecules can provide, and how to compare this information with experiments. Beginning with an introduction to computational theory for modeling, the book goes on to describe how to control the conditions of modeling systems and possible strategies for time-cost savings in computation. Part Two further outlines key methods, with step-by-step guidance supporting readers in studying and practicing simulation processes. Part Three then shows how these theories are controlled and applied in practice, through examples and case studies on varied applications.

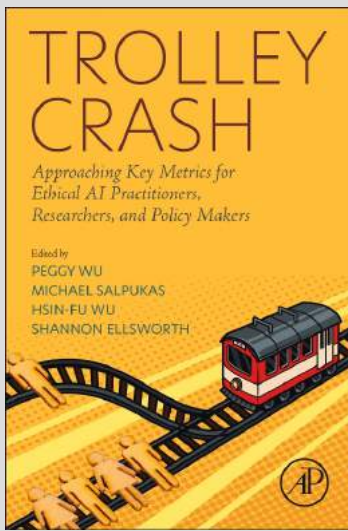
This book is a practical guide for new learners, supporting them in learning and applying molecular modeling in practice, whilst also providing more experienced readers with the knowledge needed to gain a deep understanding of the theoretical background behind key methods.



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CHEMISTRY Physical and Theoretical Chemistry
<https://virtuale.elsevier.com>, www.elsevier.com



Trolley Crash

Approaching Key Metrics for Ethical AI Practitioners, Researchers, and Policy Makers

Edited by: **Peggy Wu**, Raytheon Technologies Research Center, East Hartford, CT, USA; **Michael Salpukas**, Raytheon Missiles and Defense, Woburn, MA, USA; **Hsin-Fu Wu**, Raytheon Missiles and Defense, Tucson, AZ, USA and **Shannon Ellsworth**, Raytheon Technologies Missiles & Defense, Woburn, MA, USA

ISBN: 9780443159916
PUB DATE: Feb 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 233

AUDIENCE: Graduate students, researchers and professionals in computer science, artificial intelligence software engineering, operations research, and autonomous systems design and development, interested in metrics and measurements related to ethical reasoning in autonomous systems and related computational aspects, or more broadly into data science, machine learning, deep learning, robotics, bioinspired systems
BIC CODES: UYQE, UYQ, TJFM1, UYZ, UYQM

THEMA CLASSIFICATION:

THEMAUYQ; THEMAUYQE;
THEMATJFM1; THEMAUYZ

Explores current practice – strengths and weaknesses of ethical computing, including discussions of artificial intelligence

KEY FEATURES

- Presents a comparison between human oversight and ethical simulation in robots
- Introduces approaches for measuring, evaluating, and auditing ethical AI
- Investigates how AI and technology are changing human behavior

DESCRIPTION

The prolific deployment of Artificial Intelligence (AI) across different fields has introduced novel challenges for AI developers and researchers. AI is permeating decision making for the masses, and its applications range from self-driving automobiles to financial loan approvals. With AI making decisions that have ethical implications, responsibilities are now being pushed to AI designers who may be far removed from how, where, and when these ethical decisions occur.

Trolley Crash: Approaching Key Metrics for Ethical AI Practitioners, Researchers, and Policy Makers provides audiences with a catalogue of perspectives and methodologies from the latest research in ethical computing. This work integrates philosophical and computational approaches into a unified framework for ethical reasoning in the current AI landscape, specifically focusing on approaches for developing metrics. Written for AI researchers, ethicists, computer scientists, software engineers, operations researchers, and autonomous systems designers and developers, *Trolley Crash* will be a welcome reference for those who wish to better understand metrics for ethical reasoning in autonomous systems and related computational applications.

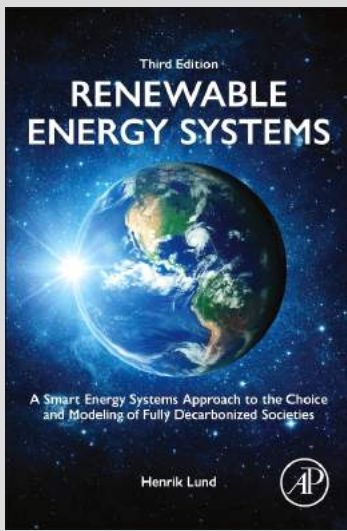


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COMPUTING

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



Renewable Energy Systems, 3e

A Smart Energy Systems Approach to the Choice and Modeling of Fully Decarbonized Societies

Henrik Lund, Department of Planning, Aalborg University, Denmark.

ISBN: 9780443141379

PREVIOUS ISBN: 9780124104235

PUB DATE: Feb 01, 2024

LIST PRICE: £95.95 / \$125.00 /

€109.00

DISCOUNT:

FORMAT: Hardback

TRIM:

PAGES: c. 391

AUDIENCE: Academia: Researchers, professors, and graduate students with an interest in planning, modelling, and implementation of renewable energy systems (disciplines: Energy, Environmental Science, Engineering)
Industry: Scientists, engineers, project managers, policy makers, consultants, and other industry personnel responsible for planning and analyzing sustainable energy systems

BIC CODES: KNB, KCJ, THX, TH

THEMA CLASSIFICATION:

THEMAKNB; THEMAKCJ;

THEMATHV; THEMATH

A detailed, step-by-step guide to planning and modelling of renewable energy systems, based on Choice Awareness Theory and the EnergyPLAN model

KEY FEATURES

- Provides an introduction to the technical design of renewable energy systems
- Demonstrates how to analyze the feasibility and efficiency of large-scale systems to help implementers avoid costly trial and error
- Addresses the socio-political challenge of implementing the shift to renewables
- Features a dozen extensive case studies from around the globe that provide real-world templates for new installations

DESCRIPTION

In this new edition of *Renewable Energy Systems: A Smart Energy Systems Approach to the Choice and Modeling of Fully Decarbonized Societies Third Edition*, globally recognized renewable energy researcher and professor, Henrik Lund, sets forth a straightforward, comprehensive methodology for comparing different energy systems' abilities to integrate fluctuating and intermittent renewable energy sources and achieve a fully decarbonized society. The book does this by presenting an energy system analysis methodology, providing the results of more than 15 comprehensive energy system analysis studies, examining the large-scale integration of renewable energy into the present system, and presenting concrete design examples derived from a dozen renewable energy systems around the globe. *Renewable Energy Systems, Third Edition* also undertakes the socio-political realities governing the implementation of renewable energy systems by introducing a theoretical framework approach aimed at understanding how major technological changes, such as renewable energy, can be implemented at both the national and international levels. This is a valuable resource for researchers, scientists, engineers, project managers, policy makers, consultants, and graduate students with an interest in planning, modelling, and implementation of renewable energy systems.

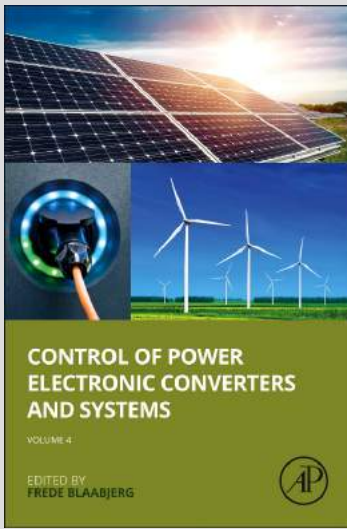


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ENGINEERING Energy

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



Control of Power Electronic Converters and Systems: Volume 4

Edited by: **Frede Blaabjerg**, Frede Blaabjerg is a Professor of Power Electronic Systems in the department of Energy Technology at Aalborg University, Denmark.

ISBN: 9780323856225
PUB DATE: Feb 01, 2024
LIST PRICE: £115.00 / \$150.00 / €131.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 400
AUDIENCE: Graduate students, researchers, and practitioners in industry, who are working on the design and control of power electronic equipment and engineers who are using the power electronic equipment in their application, Graduate courses Fundamentals of Power Electronic Converter Control (Graduate course, Intensive industrial course), Control of Power Electronic Converters and Systems, Power Converters and their applications
BIC CODES: THRM, TH
THEMA CLASSIFICATION: THEMATHY; THEMATHR; THEMATH

An up-to-date and authoritative reference of different technology in control for power electronics and renewable energy systems

KEY FEATURES

- Combines essential control design methods and trends with different applications of power converter topologies
- Includes global perspectives, case studies and real examples from different applications and their control
- Features ready-to-use models and methodologies in power electronic application, their design, control and testing

DESCRIPTION

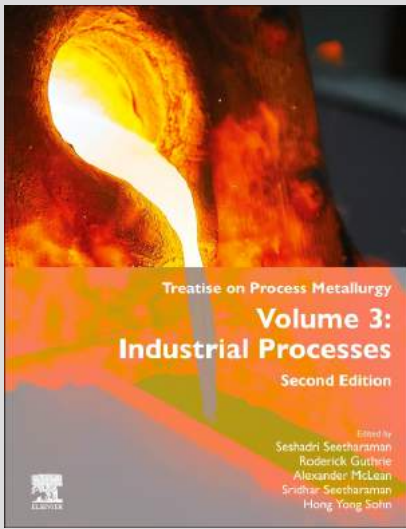
Control of Power Electronic Converters and Systems, Volume Four covers emerging topics in the control of power electronics and converters not covered in previous volumes, including emerging power converter topologies, storage systems, battery chargers and the smart transformer. This updated edition specifically focuses on emerging power converter topologies and discusses very recent advances and topics with applications in power electronics and formidable probable dynamics. Chapters include modeling of power converters and their control, with supportive simulations and additional experimental results. Anyone looking for fundamental knowledge regarding new trends in power electronics by application, and also ready to use models and methodologies in their design, control and testing will find this the next invaluable resource in this highly regarded series.



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



Treatise on Process Metallurgy, 2e

Volume 3: Industrial Processes

Edited by: **Roderick Guthrie**, Department of Mining and Materials Engineering, McGill Metals Processing Centre, Quebec, Canada; **Alexander McLean**, Department of Materials Science and Engineering, University of Toronto, Toronto, Ontario, Canada; **Sridhar Seetharaman**, Colorado School of Mines, CO, USA; **H. Y. Sohn**, Distinguished Professor, Metallurgical Engineering; Adjunct Professor, Chemical Engineering, University of Utah, USA and **Seshadri Seetharaman**, Professor Emeritus, Royal Institute of Technology, Stockholm, Sweden

ISBN: 9780323853736

PREVIOUS ISBN: 9780080969886

PUB DATE: Feb 01, 2024

LIST PRICE: £285.00 / \$350.00 / €335.00

DISCOUNT:

FORMAT: Hardback

TRIM:

PAGES: c. 900

AUDIENCE: For teaching and research faculty, upper level undergraduate students, graduate students, and post-doctoral research associates in metallurgy and materials science and technology and related areas of study (physics, chemistry and biomedical science) as well as researchers and staff members of government and industrial research laboratories, Particularly useful for more experienced research workers who require an overview of fields comparatively new to them, or with which they wish to renew contact after a gap of some years

BIC CODES: TDP, TDM, TGM

THEMA CLASSIFICATION:

THEMATD; THEMATDPM;

THEMATDP

Provides an in-depth single resource for users who need to know the latest state of research in the area of process metallurgy

KEY FEATURES

- Provides the entire breadth of process metallurgy in a single work
- Includes in-depth knowledge in all key areas of process metallurgy
- Approaches the topic from an interdisciplinary perspective, providing broad range coverage on topics

DESCRIPTION

Treatise on Process Metallurgy: Volume Three, Industrial Processes provides academics with the fundamentals of the manufacturing of metallic materials, from raw materials into finished parts or products. In these fully updated volumes, coverage is expanded into four volumes, including Process Fundamentals, encompassing process fundamentals, structure and properties of matter; thermodynamic aspects of process metallurgy, and rate phenomena in process metallurgy; Processing Phenomena, encompassing interfacial phenomena in high temperature metallurgy, metallurgical process phenomena, and metallurgical process technology; Metallurgical Processes, encompassing mineral processing, aqueous processing, electrochemical material and energy processes, and iron and steel technology, non-ferrous process principles and production technologies, and more.

The work distills the combined academic experience from the principal editor and the multidisciplinary four-member editorial board.

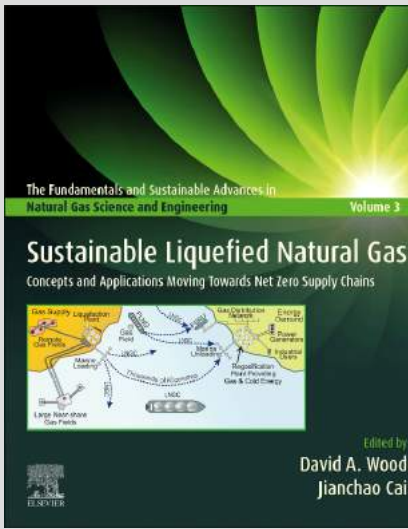


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ENGINEERING Materials

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



Sustainable Liquefied Natural Gas

Concepts and Applications Moving Towards Net Zero Supply Chains

Edited by: **David Wood**, Owner/Consultant, DWA Energy Limited, UK and **Jianchao Cai**, Professor, Institute of Geophysics and Geomatics, China University of Geosciences, Wuhan, Hubei, China

ISBN: 9780443134203
PUB DATE: Feb 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 480
AUDIENCE: Natural gas engineers, production engineers, offshore engineers, carbon capture researchers, LNG researchers
BIC CODES: THFG, TQ, THF
THEMA CLASSIFICATION: THEMATHF; THEMATQ

Propel liquefied natural gas to a net zero future with this multi-contributed reference

A Volume in the *The Fundamentals and Sustainable Advances in Natural Gas Science and Eng Series*

KEY FEATURES

- Accelerate emissions with case studies and visuals to illustrate how new principles can be applied in practical situations
- Understand innovative advances that are leading to improved environmental performance
- Bridge from theory to application with methods and examples from worldwide contributors representing academia and industry

DESCRIPTION

Sustainable Liquefied Natural Gas: Concepts and Applications Moving Towards Net Zero Supply Chains, the latest release in The Fundamentals and Sustainable Advances in Natural Gas Science and Engineering series, delivers many of the technical fundamentals needed in the natural gas industry with an additional sustainability lens. Introductory topics include liquefaction and separation technology. Advanced applications include improving operational efficiency for carriers and cargo shipping schedules, exploiting cold energy for regasification operations, and an outlook on ways to further reduce emissions. Supported by corporate and academic contributors along with two well-distinguished editors, *Sustainable Liquefied Natural Gas: Concepts and Applications Moving Towards Net Zero Supply Chains*, provides today's natural gas engineers the knowledge to adjust liquefied natural gas operations in a more environmentally sustainable way.

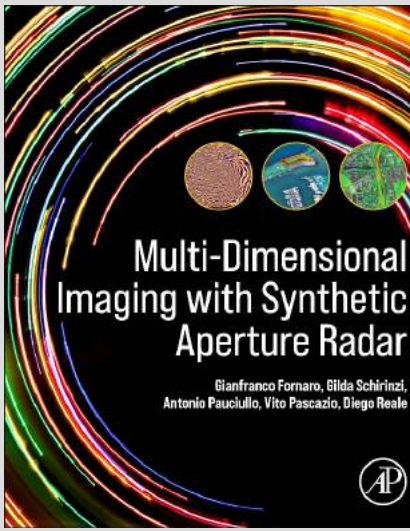


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ENGINEERING Petroleum

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



Multi-Dimensional Imaging with Synthetic Aperture Radar

Theory and Applications

Gianfranco Fornaro, Research Director, Institute for Electromagnetic Sensing of the Environment (IREA), Naples, Italy; **Antonio Pauciuolo**, Researcher, Institute for Electromagnetic Sensing of the Environment (IREA), Naples, Italy; **Vito Pascazio**, Full Professor and Chair, Department of Engineering, "Parthenope" University of Naples, Naples, Italy; **Gilda Schirinzi**, Full Professor, Department of Engineering, "Parthenope" University of Naples, Naples, Italy and **Diego Reale**, Researcher, Institute for Electromagnetic Sensing of the Environment (IREA), Naples, Italy

ISBN: 9780128216552
PUB DATE: Feb 01, 2024
LIST PRICE: £125.00 / \$160.00 / €140.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 300
AUDIENCE: Undergraduate, B.Sc., M.Sc. and Ph. D. students in engineering, post-doctoral researchers, professors
BIC CODES: UYS, TJK, TBC, PHK
THEMA CLASSIFICATION: THEMAUYS; THEMAPHK; THEMATJK; THEMATBC

Provides a simple and comprehensive description of SAR principles and data processing methods

KEY FEATURES

- Explains the modeling and data processing involved in interferometric and tomographic SAR
- Shows the potential and limitations of using SAR technology in several applications
- Presents the link between basic signal processing concepts and state-of-the-art capabilities in imaging radars
- Explains the use of basic SAR processing tools and datasets

DESCRIPTION

Multi-Dimensional Imaging with Synthetic Aperture Radar: Theory and Applications provides a complete description of principles, models and data processing methods, giving an introduction to the theory that underlies recent applications such as topographic mapping and natural risk situational awareness – seismic-tectonics, active volcano, landslides and subsidence monitoring - security, urban, wide area and infrastructure control. Imaging radars, specifically Synthetic Aperture Radar (SAR), generally mounted onboard satellites or airplanes, are able to provide systematic high-resolution imaging of the Earth's surface. Recent advances in the field has seen applications to natural risk monitoring and security and has driven the development of many operational systems.

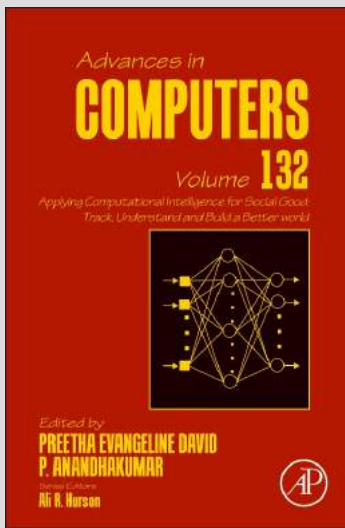


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ENGINEERING Communications

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



Applying Computational Intelligence for Social Good, Vol 132

Track, Understand and Build a Better world

Preetha Evangeline David, Associate Professor, Department of Artificial Intelligence and Data Science, Panimalar Engineering College, Poonamalle, Chennai, India

ISBN: 9780323885447
PUB DATE: Feb 01, 2024
LIST PRICE: £126.00 / \$182.00 / €130.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 300
AUDIENCE: Researchers from Industries, Academicians, carrying out transdisciplinary research and working in the field of Epidemics and outbreaks, Healthcare monitoring, Smart Agriculture, IoT, Intelligent Systems etc. ICTs Academicians and UG/PG Computer science students involved in doing projects in the fields of Data Science, Internet of Things and Artificial Intelligence and Machine and Deep Learning. Cloud/Edge/Fog and IoT Architects. Artificial Intelligence experts
BIC CODES: PB, UMZ
THEMA CLASSIFICATION: THEMABP; THEMAUM

Presents views on how Computational Intelligent and ICT technologies can be applied to ease or solve social problems

KEY FEATURES

- Explores a number of key themes, including self-organization, complex adaptive systems, and emergent computation for solving socially relevant problems
- Focuses on Forecasting applications, Human Behavior and Critics response analysis in social forums, Healthcare monitoring Systems, Disaster Management, Industrial management, and most recently, Epidemics and Outbreaks
- Brings together many different aspects of the current research on intelligence technologies, such as neural networks, support vector machines, fuzzy logic, and evolutionary computation

DESCRIPTION

Applying Computational Intelligence for Social Good: Track, Understand and Build a Better World, Volume 132 presents views on how Computational Intelligent and ICT technologies can be applied to ease or solve social problems by sharing examples of research results from studies of social anxiety, environmental issues, mobility of the disabled, and problems in social safety. Sample chapters in this release include Why is implementing Computational Intelligence for social good so challenging? Principles and its Application, Smart crisis management system for road accidents using Geo-Spatial Machine Learning Techniques, Residential Energy Management System (REMS) Using Machine Learning, Text-Based Personality Prediction using XLNet, and much more.

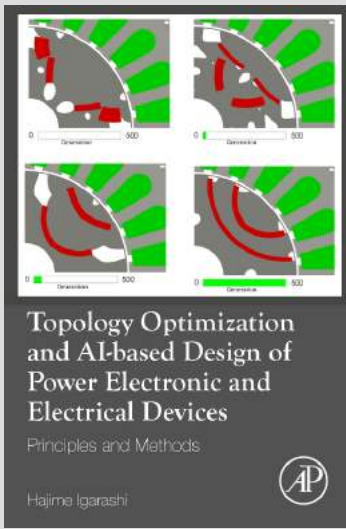


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SERIALS Computer Science

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



Topology Optimization and AI-based Design of Power Electronic and Electrical Devices

Principles and Methods

Hajime Igarashi, Professor, Graduate School of Information Science and Technology, Hokkaido University, Sapporo, Japan

ISBN: 9780323991667
PUB DATE: Feb 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 242

AUDIENCE: Early career researchers and students studying computer-aided engineering for power electronics and electrical device applications, electromagnetic field analysis, optimal design of electric devices, and design of electronic and electrical applications. Engineers who design electrical machines such as motors, transformers, inductors, wireless power transfer systems as well as electric circuits for power electronics and other systems in automotive and electric industries. Design engineers in automotive industries seeking effective motor design methods

BIC CODES: TH, THRM

THEMA CLASSIFICATION: THEMATH; THEMATHY; THEMATHR

Comprehensive and industrially applicable primer on topology and AI-based design optimization for electric devices, including detailed case studies

KEY FEATURES

- Assists researchers and design engineers in applying emergent topology design optimization to power electronics and electrical device design, supported by step-by-step methods, heuristic derivation, and pseudocodes
- Proposes unique formulations of AI-based design for electrical devices using Monte-Carlo tree search and other machine learning methods
- Richly accompanied by detailed numerical examples, and replete with computational support materials in algorithms and explanatory formulae
- Includes access to pedagogical videos on topics including the evolutionary process of topology optimization, the population distributions of genetic algorithm and CMA-ES

DESCRIPTION

Topology Optimization and AI-based design of electric devices provides an essential foundation in the emergent design methodology as it moves towards commercial development, including electrical devices as traction motors for electric motors, transformers, inductors, reactors, and power electronics circuits.

Opening with an introduction to electromagnetism and computational electromagnetics for optimal design, this book outlines principles and foundations in finite element methods and illustrates numerical techniques useful for finite element analysis. It summarizes the foundations of deterministic and stochastic optimization methods, including genetic algorithm, CMA-ES and simulated annealing for quantum and quantum-inspired optimization, alongside representative algorithms. The book goes on to discuss parameter optimization and topology optimization of electrical devices alongside current implementations including magnetic shields, 2D and 3D models of electric motors, and wireless power transfer devices. Finally, it concludes with a lengthy exposition of AI-based design methods, including surrogate models for optimization, Bayesian optimization, direct inverse modelling, deep neural networks, explainable AI, variational autoencoder and integrated design methods using Monte-Carlo tree searches for electrical devices and circuits.



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ENGINEERING Electrical

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handbook of statistics 50

Modeling and Analysis of
Longitudinal Data

Edited by
Donald E.K. Martin
Arni S.R. Srinivasa Rao
C.R. Rao



Modeling and Analysis of Longitudinal Data, Vol 50

Edited by: **Arni S.R. Srinivasa Rao**, Professor, Medical College of Georgia, USA; **Donald E.K. Martin**, Associate Professor, Department of Statistics, North Carolina State University, Raleigh, NC, United States and **C.R. Rao**, University of Hyderabad Campus, India

ISBN: 9780443136511
PUB DATE: Feb 01, 2024
LIST PRICE: £200.00 / \$250.00 /
€230.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 400
AUDIENCE: Statisticians,
mathematicians and students
BIC CODES: PBWL
THEMA CLASSIFICATION:
THEMAPBWL

Edited by one of the best scientists in the field, this series presents the latest updates in the field of longitudinal data analysis

A Volume in the *Handbook of Statistics* Series

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in the Handbook of Statistics series
- Updated release includes the latest information on Modeling and Analysis of Longitudinal Data

DESCRIPTION

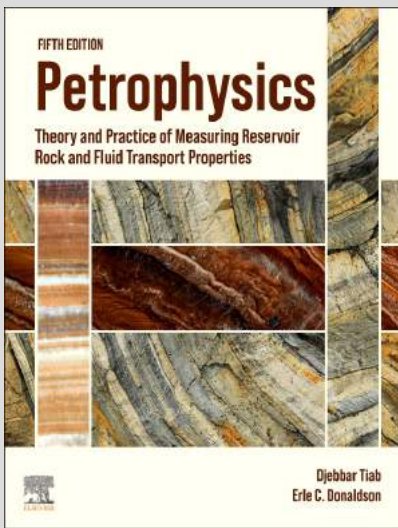
Longitudinal Data Analysis, Volume 50 in the *Handbook of Statistics* series covers how data consists of a series of repeated observations of the same subjects over an extended time frame and is thus useful for measuring change. Such studies and the data arise in a variety of fields, such as health sciences, genomic studies, experimental physics, sociology, sports and student enrollment in universities. For example, in health studies, intra-subject correlation of responses must be accounted for, covariates vary with time, and bias can arise if patients drop out of the study.



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



Petrophysics, 5e

Theory and Practice of Measuring Reservoir Rock and Fluid Transport Properties

Djebbar Tiab, Professor Emeritus, H-Index 26, Consultant and Senior Professor of Petroleum Engineering, University of Oklahoma and **Erle C. Donaldson**, Professor, Independent Engineering Consultant, Tetrahedron, Inc.

ISBN: 9780443241277

PREVIOUS ISBN: 9780128031889

PUB DATE: Feb 01, 2024

LIST PRICE: £182.99 / \$225.00 /

€213.99

DISCOUNT:

FORMAT: Hardback

TRIM:

PAGES: c. 900

AUDIENCE: Reservoir Engineers, Production Engineers, Engineering Advisors, and Reservoir Management Specialists Undergraduate and graduate students in petroleum engineering and geo-energy

BIC CODES: TH, KNAT, THFP, THX, THF

THEMA CLASSIFICATION:

THEMATHFP; THEMAKNB;

THEMATHV; THEMATH

Delivers a fundamental understanding of rock-fluid interaction, critical to maximizing reservoir performance while minimizing emissions and environmental impacts

KEY FEATURES

- Continues its longstanding, 28-year history as the leading book on petrophysics
- Captures advances in field technologies, reservoir evaluation and testing, porosity, permeability, updated calculations and indices in wettability, permeability, brittleness, and fracability
- Includes up-to-date discussions on carbon footprints and strategies to reduce emissions
- Synthesizes relevant theory, studies and advances, methods, procedures, calculations, definitions, exercises and assignments designed to reinforce learning

DESCRIPTION

Petrophysics: Theory and Practice of Measuring Reservoir Rock and Fluid Transport Properties, Fifth Edition is a seminal text on the field that delivers information for reservoir engineers, production engineers, and geoscience students who need to understand rock-fluid interactions in order to maximize reservoir performance and minimize emissions and environmental impacts. This new edition lays a foundation to petroleum geology, including an overview of pre- and post- carbon emission concerns, porosity and permeability, formation resistivity and water saturation, capillary pressure, wettability, applications of Darcy's Law, naturally fractured reservoirs, stress effects on reservoir rock, reservoir characterization and well logs, and more. Each chapter synthesizes relevant theory, studies and advances, methods, procedures, calculations, definitions, exercises and assignments designed to reinforce learning.

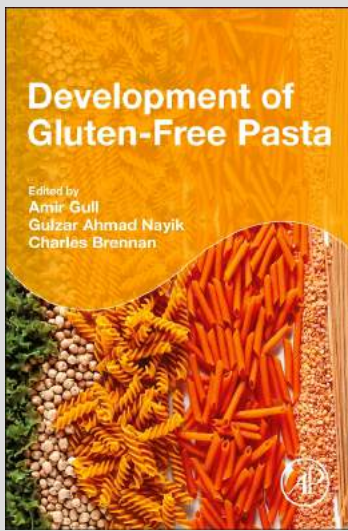


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ENGINEERING Petroleum

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



Development of Gluten-Free Pasta

Edited by: **Amir Gull**, PhD, NET, B.Ed., Department of Food Science & Technology, University of Kashmir Hazratbal Srinagar, J&K India.; **Gulzar Ahmad Nayik**, PhD, Government Degree College, Jammu and Kashmir, India and **Charles Brennan**, Ph.D. in Food Science and Nutrition, Dean, School of Science, RMIT University, GPO Box 2476, Melbourne VIC 3001 Australia

ISBN: 9780443132384
PUB DATE: Feb 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 304

AUDIENCE: Food Scientists, Food Chemists, university scholars and college students. Scientists, academicians, scholars and students dealing with processing of cereals, legumes and millets for development of novel functional food products will also find comprehensive information related to their field. People working in pharmaceutical industries, students pursuing Bachelors and Masters Degree in agriculture or horticulture or food technology.

BIC CODES: TDCT

THEMA CLASSIFICATION:

THEMATDCT

Provides an overview of all fundamental issues and key factors associated with gluten-free pasta development

KEY FEATURES

- Provides a comprehensive application of pseudocereals, hydrocolloids and prebiotic dietary fibre in the development of gluten-free pasta
- Brings a holistic and integrated coverage of role of plant derived ingredients in development of Gluten-Free Pasta
- Covers utilization of pseudo cereals having food, nutritional and economical security

DESCRIPTION

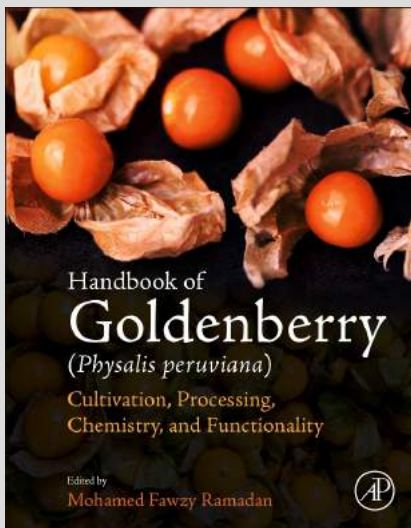
Development of Gluten-Free Pasta summarizes current progress in development of gluten-free (GF) products, focused particularly on pasta products. Presented in 11 chapters, this book focuses on the role of prebiotic fibre, hydrocolloids, fruit and vegetable by-product pomace and the physical, microstructural, sensory and nutritional properties of the gluten-free pasta. The science of gluten intolerance is explained as well. With all relevant literature gathered and summarized in one place, this is an essential resource for both food scientists and industry professionals pursuing gluten-free formulations. Hence, this book would lay a very solid foundation for development of GF pasta which can be exploited as an essential therapeutic tool in the prevention of celiac disease. A comprehensive reference written by world renowned scientists who elaborate study of different selected additives of plant origin, providing an immense assistance in the field of research as many areas are still unexplored in the field of cereal science & technology.



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FOOD SCIENCE, TECHNOLOGY & NUTRITION
<https://virtuale.elsevier.com>, www.elsevier.com



Handbook of Goldenberry (*Physalis peruviana*)

Cultivation, Processing, Chemistry, and Functionality

Edited by: **Mohamed Fawzy Ramadan**, PhD, Professor, Department of Clinical Nutrition, Faculty of Applied Medical Sciences, Umm Al-Qura University, Makkah, Saudi Arabia

ISBN: 9780443154331
PUB DATE: Jan 20, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 500
AUDIENCE: Nutrition researchers, food scientists, food chemists, food technologists, nutritionists, and those studying related fields
BIC CODES: TDCT, MMFM
THEMA CLASSIFICATION: THEMAMKFM; THEMATDCT

Presents the cultivation, processing, chemistry, and functionality of *Physalis peruviana*

KEY FEATURES

- Presents the chemistry and functionality of *Physalis peruviana*
- Discusses the processing, technology, and functional applications of *Physalis peruviana*
- Explores *Physalis peruviana* phytochemicals and its health-promoting effects

DESCRIPTION

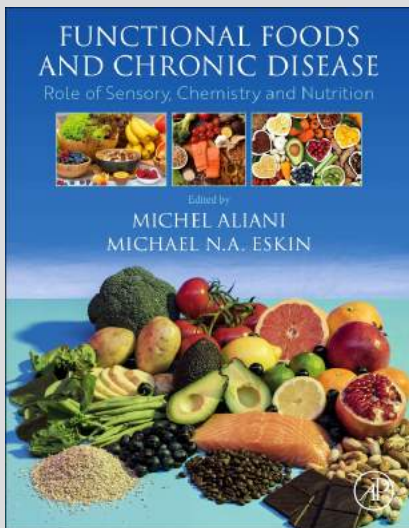
Handbook of Goldenberry (Physalis peruviana): Cultivation, Processing, Chemistry, and Functionality presents multidisciplinary coverage of *P. peruviana* and its role as in food, cosmetic, and pharmaceutical products. Broken into three sections, the book addresses the cultivation, species, and cultivars of *Physalis peruviana*, along with its chemistry, functionality, health-promoting properties, technologies, processing, and applications. Written for nutrition researchers, food scientists, food chemists, food technologists, nutritionists, and those studying related field, this book is a timely reference for those who wish to learn more about this functional food.



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FOOD SCIENCE, TECHNOLOGY & NUTRITION
<https://virtuale.elsevier.com>, www.elsevier.com



Functional Foods and Chronic Disease

Role of Sensory, Chemistry and Nutrition

Edited by: **Michel Aliani**, Professor, Food and Human Nutritional Sciences, University of Manitoba, Winnipeg, Canada and **Michael N.A. Eskin**, Professor, University of Manitoba, Winnipeg, Manitoba, Canada

ISBN: 9780323917476
PUB DATE: Feb 01, 2024
LIST PRICE: £115.00 / \$150.00 / €131.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 211
AUDIENCE: Food scientists, nutritionists, dietitians, food product developers, food supplement producers, food ingredient developers, natural product scientists, herbalists, pharmacists as well as students studying related areas
BIC CODES: TV
THEMA CLASSIFICATION: THEMATV

Addresses the nutritional needs of people suffering from different chronic diseases, including practical recommendations for developing acceptable functional foods

KEY FEATURES

- Highlights the need for acceptable functional foods for individuals suffering from a wide range of chronic diseases
- Includes case studies, applications, literature reviews, and a summary of recent developments in the field
- Provides suggestions for improving the organoleptic properties of functional foods

DESCRIPTION

Functional Foods and Chronic Disease: Role of Sensory, Chemistry and Nutrition explores the range of functional foods that are effective against a wide range of chronic diseases and addresses the impact of functional food bioactive compounds on organoleptic properties. Beginning with an introduction that details the key sensory and advanced instrumental methods essential for addressing the common problems associated with designing functional foods, the book also addresses the impact of aging and chronic diseases on sensory acuity as well as the effectiveness of functional foods in treating a wide range of chronic diseases.

Sections highlight the need for acceptable functional foods for individuals suffering from a wide range of chronic diseases and contain practical recommendations for their development. Food scientists, nutritionists, dietitians, food product developers, food supplement producers, food ingredient developers, natural product scientists, herbalists, and pharmacists, as well as students studying related areas, will benefit from this important resource.



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FOOD SCIENCE, TECHNOLOGY & NUTRITION
<https://virtuale.elsevier.com>, www.elsevier.com



Strigolactones

Synthesis, Application and Role in Plants

Edited by: **Gausiya Bashri**, Assistant Professor, Department of Botany, Aligarh Muslim University, Aligarh, India; **Shamsul Hayat**, Professor, Department of Botany, Aligarh Muslim University, Aligarh, India and **Andrzej Bajguz**, Professor, Department of Biology and Plant Ecology, Faculty of Biology, University of Białystok, Białystok, Poland

ISBN: 9780443135217
PUB DATE: Feb 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00

DISCOUNT:

FORMAT: Paperback

TRIM:

PAGES: c. 307

AUDIENCE: Researchers, academics and advanced level students in plant science and plant physiology.

Researchers, academics and advanced level students in agricultural science

BIC CODES: PSB, PST, PSTD

THEMA CLASSIFICATION:

THEMAPSB; THEMAPST

Helps readers understand the role and potential benefit of Strigolactones in improving plant health and crop yield

KEY FEATURES

- Provides in-depth coverage of SL basics, use, and potential
- Identifies the role of SLs in plant defense systems against both biotic and abiotic stresses
- Presents the latest research that will be valuable for both plant and agriculture science

DESCRIPTION

Strigolactones: Synthesis, Application and Role in Plants presents the current state of the science for this recently discovered class of plant hormones, offering foundational insights. The book covers the structure of natural and synthetic SLs, synthesis, transport, signaling, and their application, role in the growth and development of plants like seed germination, root growth, and stem branching plant architecture. Further, the crosstalk of SLs with other plant hormones and signaling molecules are discussed. Finally, the role of SLs in plant defense systems, particularly in biotic and abiotic stresses, heavy metals, salt, temperature, radiation, pesticide drought, and flood stress on plants. Concluding with the latest discoveries, future perspectives, and challenges in plant biology, this book will be a valuable reference for those in plant and agricultural sciences.

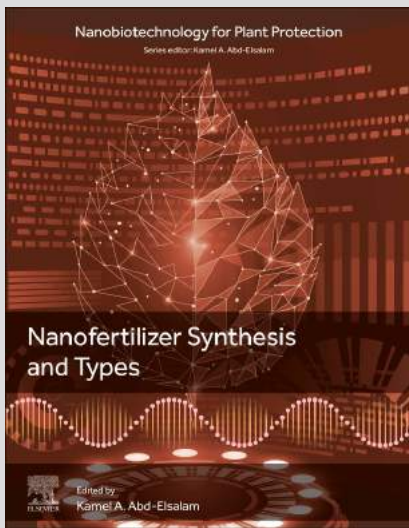


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LIFE SCIENCES Botany

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



Nanofertilizer Synthesis: Methods and Types

Edited by: **Kamel A Abd-Elsalam**, Molecular Plant Pathologist, Plant Pathology Research Institute, Agricultural Research Center, Giza, Egypt

ISBN: 9780443135354
PUB DATE: Feb 01, 2024
LIST PRICE: £155.00 / \$200.00 / €175.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 410
AUDIENCE: R&D Professionals, fertilizer developers and suppliers, researchers, physiologists, environmental scientists, and agrochemical companies
Advanced students in plant and agricultural sciences, biochemistry, nanotechnology
BIC CODES: TVK, KNAC, TCB
THEMA CLASSIFICATION: THEMATCB; THEMAKNA; THEMATVK

Combines practical and theoretical knowledge on nano-fertilizers in a single, easily-accessible volume

A Volume in the *Nanobiotechnology for Plant Protection* Series

KEY FEATURES

- Guides in the identification of appropriate nano-fertilizer options based on use-case
- Addresses both target plant and environmental considerations
- Includes economic and regulatory insights

DESCRIPTION

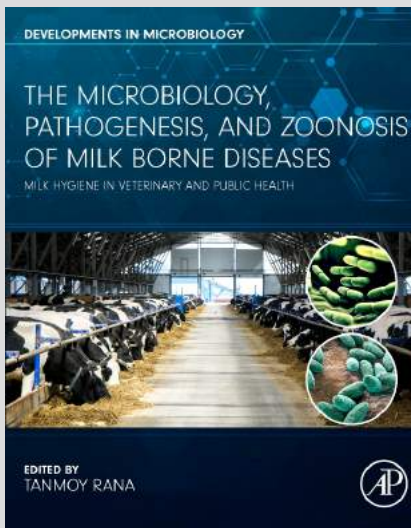
Nanofertilizer Synthesis: Methods and Types discusses the production of a variety of nano-fertilizers, including biological, chemical, and mechanical types. The book presents the latest information, highlights the benefits and impacts of each, and provides a single-volume resource to help effectively and efficiently identify options based on use-case. Exploring the topic from the various mechanistic types to the relevant regulatory, safety, and economic aspects, this volume will be appropriate for those working with and researching new nano-fertilizers which aid in nutrition control by increasing nutrient consumption efficiency as nutrients are bonded to nano-dimensional adsorbents, which in turn release nutrients considerably more slowly than traditional fertilizers. As the nano-fertilizer sector advances, one approach is to concentrate on macro elements (N, P, K), as switching to nano-fertilizers may result in significant environmental benefits by replacing the majority of these nutrients. Furthermore, the biosynthesis of nanomaterials employing bacteria, algae, yeast, fungus, actinomycetes, and plants has opened up a new field of study for the creation of inorganic nanoparticles as environmentally benign fertilizers. Because of the several-fold increase in the surface-to-volume ratio of nano-forms of nutrients, and their appropriateness for foliar application, where environmental losses are further decreased, nano-fertilizers may achieve higher efficiency.



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The Microbiology, Pathogenesis and Zoonosis of Milk Borne Diseases

Milk Hygiene in Veterinary and Public Health

Tanmoy Rana, BVSc, MVSc, PhD, West Bengal University of Animal and Fishery Sciences

ISBN: 9780443138058
PUB DATE: Feb 23, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 326
AUDIENCE: postgraduate students, researchers, academicians, in microbiology; and zoonotic diseases, industrialists
BIC CODES: PSGD
THEMA CLASSIFICATION: THEMAPSG

Describes the microorganisms and bacteria in milk, the transmittal (zoonosis) and the development of milk-borne diseases (pathogenesis) and the prevention of those diseases

A Volume in the *Developments in Microbiology* Series

KEY FEATURES

- Emphasizes the importance of milk hygiene to prevent milk-borne diseases
- Provides an overview of milk borne diseases, diagnosis, and treatment
- Identifies the various milk-borne zoonotic pathogens and their impact on public health

DESCRIPTION

The Microbiology, Pathogenesis, and Zoonosis of Milk Borne Diseases: Milk Hygiene in Veterinary and Public Health offers comprehensive coverage of milk borne infection, diagnosis, and treatment. With a strong focus on milk hygiene, zoonotic diseases, and the pathogenesis of milk-borne microbial agents, the book discusses various pathogenic diseases, evaluates the severity of diseases from milk and milk products, and describes remedial measures after the application of drugs.

The book also introduces the reader to the microbiology, pathogenesis, and zoonosis of milk borne diseases. It not only describes general aspects of milk borne zoonosis and prevention, but also covers risk analysis, assessment, practice, and quality management in milk hygiene.

In 22 chapters, *The Microbiology, Pathogenesis, and Zoonosis of Milk Borne Diseases: Milk Hygiene in Veterinary and Public Health* provides researchers, academicians, industry professionals, and students with a better understanding on how to assess zoonotic diseases from milk-borne pathogens and address their clinical manifestations.

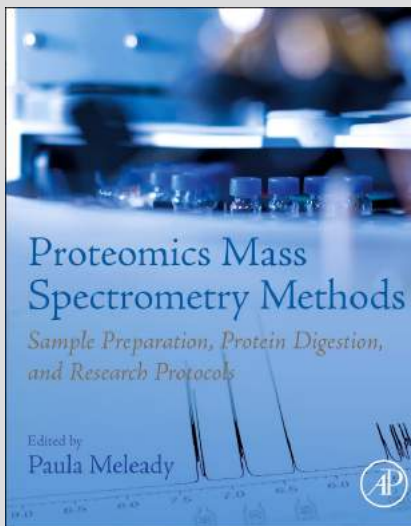


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LIFE SCIENCES Microbiology

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



Proteomics Mass Spectrometry Methods

Sample Preparation, Protein Digestion, and Research Protocols

Edited by: **Paula Meleady**, Senior Research Scientist, Programme Leader, Proteomics Core Facility and Associate Director National Institute for Cell Biology, Ireland

ISBN: 9780323903950
PUB DATE: Feb 01, 2024
LIST PRICE: £101.00 / \$125.00 / €118.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 334
AUDIENCE: Cell biologists, Biochemists, Molecular Biologists, Biomedical Engineers at Ph.D level and above, mostly in academia, Biophysicists and Structural Biologists, Clinicians and Research physicians, Industry-based proteomics researchers
BIC CODES: PSF
THEMA CLASSIFICATION: THEMPSF

Comprehensive and up-to-date introductory protocols guide for researchers in proteomics and mass spectrometry

KEY FEATURES

- Explores the most common questions new researchers have
- Guides readers to properly design the workflow for successful integration of mass spectrometry into protein biochemical analyses
- Provides examples of sample preparation for a number of different materials, mammalian cells, and others

DESCRIPTION

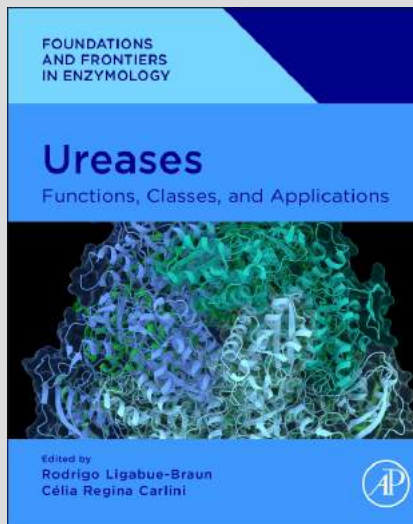
Proteomics Mass Spectrometry Methods: Sample Preparation, Protein Digestion, and Research Protocols shares best practices collected across key laboratories and core facilities, taking the reader through key tactics for executing the most usual mass spectrometry experiments. Sections review research making use of MS proteomics experiments, focus on critical sample preparation, cover mammalian cell lines and samples from clinical tissue and biological fluids, discuss subcellular fractionation, provide methods for protein digestion both for in gel and in solution, and delve into key MS proteomics analysis protocols, including label-free LC-MS, TMT and iTRAQ labelled LC-MS, phosphorylation enrichment, ubiquitination enrichment, and more. This book is the perfect lab manual for research teams or for use as a new staff training material. Core facility managers may also find it useful for sharing best practices with their staff and researchers.



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LIFE SCIENCES Molecular Biology
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Ureases

Functions, Classes, and Applications

Edited by: **Rodrigo Ligabu Braun**, PhD, Associate Professor of Pharmaceutical Sciences Department, Universidade Federal de Ciências da Saúde de Porto Alegre (UFCSPA), Porto Alegre, Brazil and **Célia Regina R Da S Carlini**, PhD, Full Professor (retired), Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.

ISBN: 9780323918008
PUB DATE: Feb 14, 2024
LIST PRICE: £135.00 / \$175.00 / €155.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 452
AUDIENCE: Researchers in Biochemistry, Biotechnology, Chemical Biology, Medicinal Chemistry, Enzymology, Drug Discovery, Genetics, and Microbiology, Students
BIC CODES: PHVN, PSB
THEMA CLASSIFICATION: THEMAPSB; THEMAPHVN

Offers a thorough, applied discussion of ureases and the growing role of these enzymes across biotechnological and pharmaceutical applications

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

KEY FEATURES

- Considers fundamental aspects of urease biochemistry, ureolysis and urease inhibitors
- Discusses urease research across a range of applications, from drug discovery to biosensors, water purification, architecture and the food industry
- Features chapter contributions from international leaders in the field

DESCRIPTION

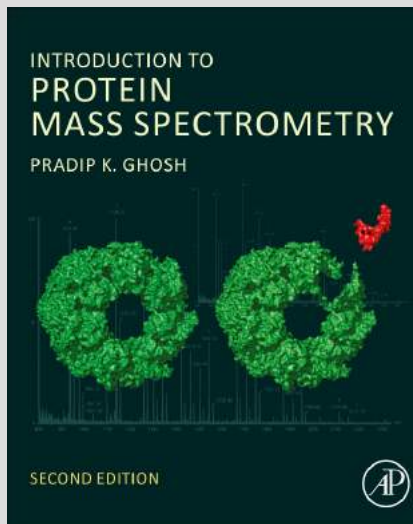
Ureases: Foundations, Classes, and Applications provides a thorough, practical analysis of ureases—enzymes of growing relevance across a range of biotechnological applications and drug discovery. Unique in many aspects, ureases are one of the few enzymes to have nickel in their active sites. *Ureases* covers all aspects of this enzymatic class. Starting with foundational overview, the book discusses historical urease research and the current state, from basic biochemistry to the use of ureases as hallmarks in enzymology, crystallography, and bioinorganic chemistry. The different classes of ureases, structurally diverse but chemically equivalent, are individually discussed. The multi-protein, multi-step activation of ureases (with chemical modification of residues, transport, and transfer of nickel ions) are examined in-depth, along with the catalytic mechanisms of ureolysis and its inhibitors. The final two sections of the book address multiple applications of ureases in health and biotechnology, respectively, going from gastric ulcer treatment to architectural uses in buildings and engineering. Future applications and next steps in research are also considered.



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LIFE SCIENCES Molecular Biology
<https://virtuale.elsevier.com>, www.elsevier.com



Introduction to Protein Mass Spectrometry, 2e

Pradip Kumar Ghosh, Former Professor of Chemistry, Indian Institute of Technology, Kanpur, India

ISBN: 9780443140150
PREVIOUS ISBN: 9780128051238, 9780128021026
PUB DATE: Feb 01, 2024
LIST PRICE: £126.00 / \$165.00 / €143.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 316
AUDIENCE: All scientists using Protein Mass Spectrometry, particularly analytical chemists, biochemists, drug discovery/medicinal chemists, biologists.
BIC CODES: PD, PSB, PHVN
THEMA CLASSIFICATION: THEMAPHVN; THEMADPM; THEMADPSB

An updated guide to the latest developments of protein mass spectrometry and its application in biochemistry, chemistry, and biology

KEY FEATURES

- Offers up-to-date, introductory information for scientists and researchers new to the field, as well as advanced insights into the critical assessment of computer-analyzed mass spectrometric results and their current limitations
- Provides examples of commonly used MS instruments from a range of key manufacturers/developers, including Bruker, Applied Biosystems, JEOL, Thermo Scientific/Thermo Fisher Scientific, IU, Waters and PNNL
- Includes biological applications and exploration of analytical tools and databases for bioinformatics
- Features definitions, case studies, and recent developments in protein mass spectrometry
- Includes sections new to this edition on SLIM (Structures for Lossless Ion Manipulation) and mass spectrometry applications in neuroscience, including synaptic biology and Alzheimer's disease

DESCRIPTION

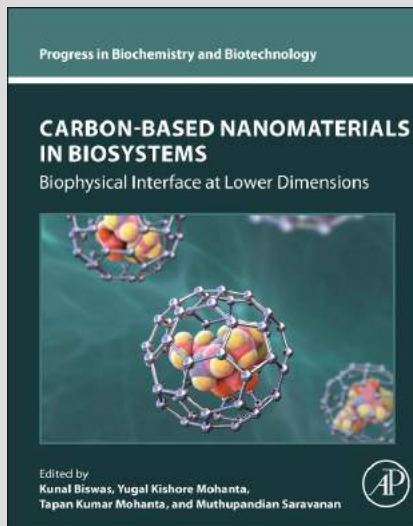
Introduction to Protein Mass Spectrometry, Second Edition provides a comprehensive overview of this increasingly important, yet complex, analytical technique. This book enables readers to understand how determinations about protein identity from mass spectrometric data are made. Coverage begins with the technical basics, including preparations, instruments, and spectrometric analysis of peptides and proteins, before exploring applied use in biological applications, bioinformatics, database, and software resources. This new edition is fully updated to include the latest developments in the field and will feature new content covering recent progress in the areas where there have been the most exciting advances. These include PNNL's multilevel-PCB-based SLIM realization, SLIM-Agilent QQQ field trials; employment of SLIM-IMS-cryo-IR combination in molecular structure determination; proximity-labelling mass spectrometry, and applications in neuroscience.



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LIFE SCIENCES Molecular Biology
<https://virtuale.elsevier.com>, www.elsevier.com



Carbon-Based Nanomaterials in Biosystems

Biophysical Interface at Lower Dimensions

Edited by : **Kunal Biswas**, Scientist C, Centre for Nanoscience & Nanotechnology, International Research Centre, Sathyabama Institute of Science and Technology; **Yugal Kishore Mohanta**, Assistant Professor, Department of Applied Biology, School of Biological Sciences, University of Science and Technology Meghalaya (USTM); **Tapan Kumar Mohanta**, Research Assistant Professor, Natural and Medical Sciences Research Centre, University of Nizwa, Oman and **Muthupandian Saravanan**, Professor, AMR and Nanotherapeutics Lab, Department of Pharmacology Saveetha Institute of Medical and Technical Sciences (SIMATS)

ISBN: 9780443155086
PUB DATE: Feb 01, 2024
LIST PRICE: £134.00 / \$175.00 / €155.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 558
AUDIENCE: Biochemists, Chemists, Biotechnologists, Biologists, and Health Professionals; Researchers (biomaterials scientists, Biophysicians, materials scientists, biomedical engineers, medicinal chemists); Biotechnology enterprises interested in biotechnological applications of nanomaterials
BIC CODES: PHVN, TCB, PSB
THEMA CLASSIFICATION: THEMPSB; THEMAPHVN; THEMATCB

Comprehensive overview of all major aspects of carbon-based nanomaterials, their biophysical response, and biotechnological application

A Volume in the *Progress in Biochemistry and Biotechnology* Series

KEY FEATURES

- Covers major breakthroughs in carbon nanomaterials (CNMs)
- Distinguishes between the advantages and disadvantages of carbon-based and non-carbon-based nanomaterials
- Discusses the significance of different forms of carbon nanomaterials and their unique physico-chemical and electrochemical properties at the lower dimension
- Examines the appropriate methodologies for tackling safety and health-related matters while using carbon-based nanomaterials
- Discusses recent developments of various forms of carbon-based nanomaterials such as graphene, carbon nanotubes, fullerenes, and carbon nano-onions

DESCRIPTION

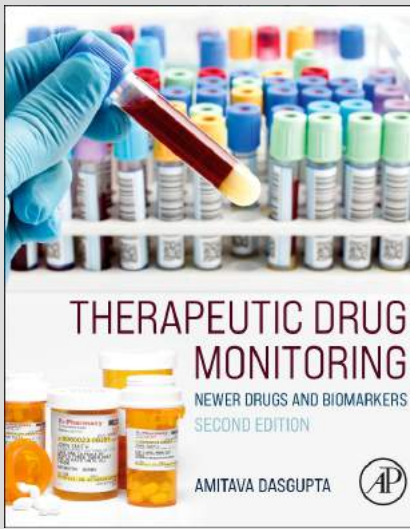
Carbon-Based Nanomaterials in Biosystems: Biophysical interface at Lower Dimensions provides a thoroughly comprehensive overview of all major aspects of carbon-based nanomaterials, their biophysical response, and biotechnological applications. The book articulates the underlying physics, chemistry, and the basic phenomenon of the broad-range carbon-based nanomaterials (CNMs) with biological systems, particularly the interface analysis. Organized in six sections, it discusses state-of art technological interventions of carbon-based nanomaterials and their application in biomedical sectors in healthcare, food sciences, and technology. The book also highlights the carrying capacity of different CNMs in payload efficiency mechanisms in various biomedical fields. The theranostic efficiency and the safety of various forms of CNMs is assessed. This book will be a helpful resource to those specializing in the areas of nanomedicine, bionanomaterials, and nanotechnology applications.



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LIFE SCIENCES Molecular Biology
<https://virtuale.elsevier.com>, www.elsevier.com



Therapeutic Drug Monitoring, 2e

Newer Drugs and Biomarkers

Edited by: **Amitava Dasgupta**, Professor, Pathology and Laboratory Medicine, McGovern Medical School, The University of Texas, Houston, TX, USA

ISBN: 9780443186493

PREVIOUS ISBN: 9780123854674

PUB DATE: Feb 23, 2024

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

DISCOUNT:

FORMAT: Hardback

TRIM:

PAGES: c. 530

AUDIENCE: Clinical pathologists, toxicologists, pharmacologists and clinical chemists Scientists working in diagnostic companies developing reagents for monitoring therapeutic drugs.

BIC CODES: MMG

THEMA CLASSIFICATION:
THEMAMKG

An up-to-date overview of current state of the art of Therapeutic Drug Monitoring in both daily clinical practice and in research

KEY FEATURES

- Includes new chapters covering antifungal, anticoagulant, and anticancer drugs monitoring.
- Discusses limitations of current immunoassays, new and sophisticated chromatographic techniques, the clinical effectiveness of newer antiretroviral agents, anticonvulsants and antidepressants
- Provides full coverage of pharmacogenomics and personalized medicine, principles of pharmacokinetics and pharmacodynamics and the application of biomarkers in TDM

DESCRIPTION

Therapeutic Drug Monitoring: Newer Drugs and Biomarkers, 2nd Edition is an updated reference on TDM analytical techniques in diverse clinical settings.

This new edition reviews the exciting new developments in the area, including seven new chapters covering immunoassay design and applications, combined chromatographic techniques in therapeutic monitoring, drug monitoring in alternative specimens, pharmacogenomics of anticancer drugs, pharmacogenomics testing for patient management, selected antifungal agents, pharmacodynamic monitoring, and therapeutic drug monitoring of selected anticoagulants. All remaining chapters in the first edition were thoroughly revised and updated.

Therapeutic Drug Monitoring, 2nd Edition is the ideal reference for clinical pathologists, pharmacologists, and toxicologists involved with TDM. Scientists working in diagnostic companies, developing reagents for monitoring therapeutic drugs will also find relevant information in this book.

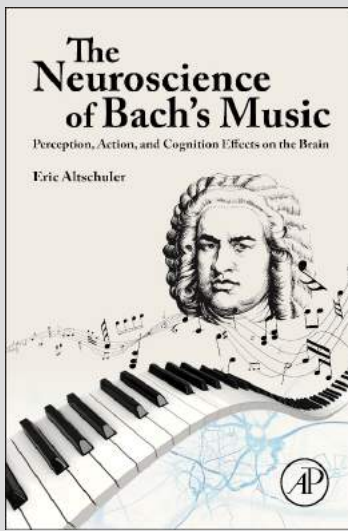


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LIFE SCIENCES Pharmacology

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



The Neuroscience of Bach's Music

Perception, Action, and Cognition Effects on the Brain

Eric Altschuler, Department of Physical Medicine and Rehabilitation, Metropolitan Hospital and Department of Rehabilitation Medicine, New York Medical College, NY, USA

ISBN: 9780443135194
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 279
AUDIENCE: Researchers in neuroscience, particularly perceptual and/or cognitive neuroscience, Advanced undergraduate or graduate students in neuroscience, musicians, students or academics in musical studies
BIC CODES: PSAN
THEMA CLASSIFICATION: THEMAJMM; THEMAJMR; THEMAPSAN

Connects the music of Johann Sebastian Bach to the appreciation, understanding, utilization, and further study of perceptual and cognitive neuroscience

KEY FEATURES

- Links specific features and unique characteristics of Bach's music to perceptual and cognitive neuroscience processes
- Requires only an interest in music or basic music training
- Accompanied by a companion website with music examples mentioned in the book

DESCRIPTION

The Neuroscience of Bach's Music: Perception, Action, and Cognition Effects on the Brain is a comprehensive study of Johann Sebastian Bach's music through the lens of neuroscience, examining neuroscience using Bach's music as a tool. This book synthesizes cognitive neuroscience, music theory, and musicology to provide insights into human cognition and perception. It also explores how a neuroscience perspective can improve listening and performing experiences for Bach's music. Written by a physician-neuroscientist recognized for scholarly articles on Bach's music, this book uses specific examples to explore neuroscience across Bach's compositions.

The book is structured to discuss the brain's action, perception, and cognition as connected to specific Bach concertos, tones, notes, and performances. Two guest contributors provide insight into exact mathematical, or topologic, and music theoretic aspects of Bach's music with implications for cognitive neuroscience.

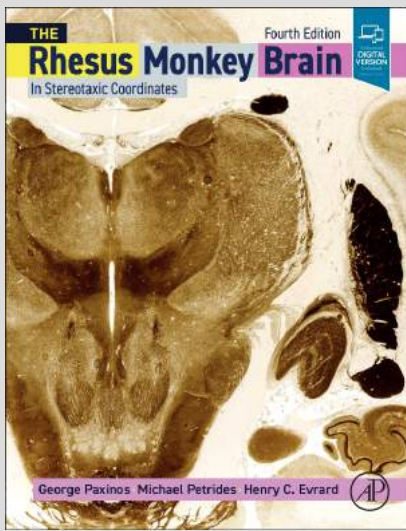


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LIFE SCIENCES Neuroscience

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



The Rhesus Monkey Brain in Stereotaxic Coordinates, 4e

George Paxinos, AO (BA, MA, PhD, DSc), FASSA, FAA, NHMRC Senior Principal, NeuRA; **Michael Petrides**, Professor at the Montreal Neurological Institute, McGill University and **Henry C. Evrard**, Nathan S. Kline Institute for Psychiatric Research, Orangeburg, NY, USA Center for Integrative Neuroscience, University of Tübingen, Tübingen, Germany Max Planck Institute for Biological Cybernetics, Tübingen, Germany International Center for Primate Brain Research, Shanghai, PRC

ISBN: 9780128158524
PUB DATE: Mar 01, 2024
LIST PRICE: £115.00 / \$150.00 / €132.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 346
AUDIENCE: Primate neurobiologists, embryologists, evolutionary biologists and pathologists, developmental neurobiologists, early career researchers in neuroscience, imaging, especially in the field of functional brain mapping, and developmental biology; from students to very experienced researchers
BIC CODES: PSAN
THEMA CLASSIFICATION: THEMAPSAN

A stereotaxic atlas of the rhesus monkey brain that provides a much needed update and essential resource for anyone studying primate brain function and physiology

KEY FEATURES

- Coronal diagrams and accompanying photographic plates spaced at 120 μm intervals; diagrams completely revised
- Photographic coronal plates of SMI immunoreactivity; delineations completely revised
- Linking of structure names from the atlas to the CoCoMac neuroinformatics database for online retrieval of additional information on partitioning schemes and connectivity
- Inclusion of MR images at approximately the same levels as the coronal diagrams
- This monkey brain atlas follows the same nomenclature and abbreviations conventions as the mouse, rat, chicken, and human brain atlases published under George Paxinos' leadership

DESCRIPTION

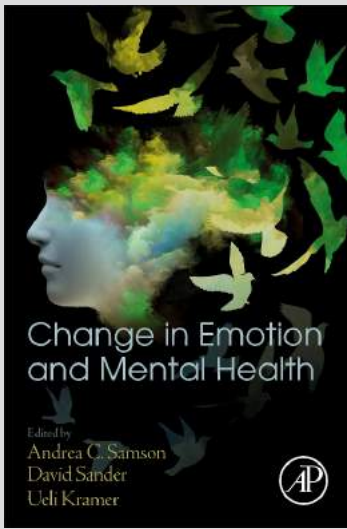
Paxinos and Petrides' *The Rhesus Monkey Brain in Stereotaxic Coordinates* is the most comprehensive and accurate atlas of the monkey brain currently available. The fourth edition of this classic book will be a complete revision, featuring many improvements and upgrades. Containing coronal diagrams and accompanying photographic plates spaced at 120 μm intervals, this atlas follows the same nomenclature and abbreviations conventions as the mouse, rat, chicken, and human brain atlases published under George Paxinos' leadership. This atlas is suitable for researchers who work with both monkeys and humans. Constructed by the established leaders in neuroanatomical atlas development, the new edition will again be the indispensable resource for all scientists working on the primate nervous system.



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LIFE SCIENCES Neuroscience
<https://virtuale.elsevier.com>, www.elsevier.com



Change in Emotion and Mental Health

Edited by: **Andrea C. Samson**, Faculty of Letters, Human Sciences, University of Fribourg, Fribourg, Switzerland; **David Sander**, University of Geneva, Genève, Switzerland and **Ueli Kramer**, University of Lausanne, Switzerland and University of Windsor, Canada

ISBN: 9780323956048
PUB DATE: Feb 01, 2024
LIST PRICE: £121.99 / \$150.00 / €142.99
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 430
AUDIENCE: Researchers and practitioners in clinical psychology
BIC CODES: JM
THEMA CLASSIFICATION: THEMAMKMT5

Identifies how different aspects of emotion affect mental health, and how this information can be used to improve psychotherapy outcomes

KEY FEATURES

- Reviews how emotion affects mental health
- Identifies how emotional processing changes during psychotherapy
- Examines emotion awareness, regulation, appraisal, memories, and competencies
- Includes theory, research, and clinical case examples

DESCRIPTION

Change in Emotion and Mental Health summarizes how awareness of one's emotions, emotion regulation, emotion appraisal, emotionally laden memories, and emotional competencies influence mental health. Each component is discussed with regard to mechanisms, development, and their impact on psychotherapy. The first part of the book discusses theories linking emotional processes, psychopathology, and mental health. The second part of the book discusses the developmental pathways of change in emotional processes over the lifespan. The third part of the book discusses pathways of change in emotional processes during psychotherapy and includes different forms of treatment of psychological disorders.

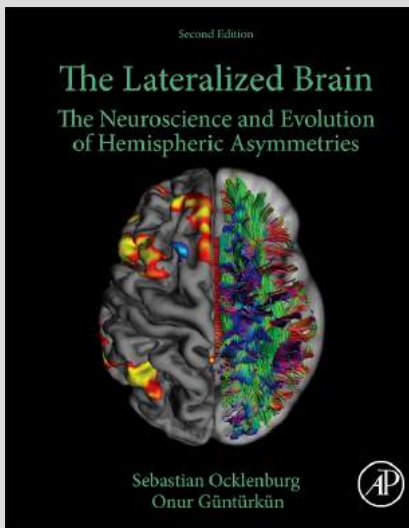


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LIFE SCIENCES Psychology

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



The Lateralized Brain, 2e

The Neuroscience and Evolution of Hemispheric Asymmetries

Sebastian Ocklenburg, Ruhr-Universität Bochum, Bochum, Germany and Onur Güntürkün, Ruhr-Universität Bochum, Bochum, Germany

ISBN: 9780323997379
PREVIOUS ISBN: 9780128034521
PUB DATE: Apr 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 350
AUDIENCE: Researchers, clinicians, post-doctoral fellows, and graduate students in neuroscience, as well as those in the biological sciences and psychology
BIC CODES: MJN, TVH, PSV, PSAN
THEMA CLASSIFICATION: THEMAPSV; THEMATVH; THEMAPAN

A comprehensive up-to-date reference on hemispheric asymmetries in the brain, their evolution, and their integral roles in language, handedness, emotion, and more

KEY FEATURES

- Provides a comprehensive overview about key topics in laterality research, including its history, evolutionary perspectives, the corpus callosum, and brain structure
- Includes references to key articles, books, protocols, and online resources for additional, detailed study
- Discusses classic studies that helped define the field of laterality research and presents introductory short stories (e.g. famous classic clinical cases in laterality research) as a starting point for each chapter
- Covers key concepts and methods in separate call-out boxes for quick overview
- Newly integrates a chapter on laterality in social behavior, as well as various smaller new sections covering recent advances in the field

DESCRIPTION

The *second edition of The Lateralized Brain: The Neuroscience and Evolution of Hemispheric Asymmetries* provides for readers a volume detailing the functional and structural differences between the left and right hemispheres of the brain, highlighting how the widespread use of modern neuroimaging techniques such as fMRI and DTI have completely changed the way hemispheric asymmetries are currently investigated.

In this new edition, all chapters have been updated with recent advances in the field, and a new chapter on hemispheric asymmetries in development and aging has been integrated. Also featured is a new, larger section on laterality in social behavior, alongside a comprehensive overview about key topics in laterality research, including its history, evolutionary perspectives, brain structure, and the role of the corpus callosum. Chapters cover functional hemispheric asymmetries in language processing, motor behavior, spatial attention, self- and face-perception, emotion processing, and social behavior. Additional topics include the ontogenesis of hemispheric asymmetries and their development over the life span, as well as sex differences and associations with clinical syndromes. This volume can be used by anyone working on hemispheric biology or in courses on hemispheric asymmetries.

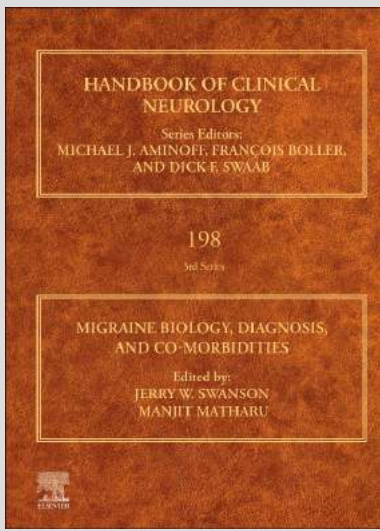


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LIFE SCIENCES Neuroscience

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



Migraine Biology, Diagnosis, and Co-Morbidities, Vol 198

Edited by: **Jerry W. Swanson**, Mayo Clinic College of Medicine and Science, Rochester, MN, United States and **Manjit Matharu**, Consultant Neurologist, National Hospital for Neurology and Neurosurgery, Queen Square, London, United Kingdom

ISBN: 9780128233566
PUB DATE: Feb 01, 2024
LIST PRICE: £215.00 / \$275.00 / €240.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 350
AUDIENCE: Clinical neurologists
BIC CODES: MJN, MBGR, PSAN, MJG
THEMA CLASSIFICATION: THEMAMKJ; THEMAMBGR; THEMAMJG; THEMAPSAN; THEMAMFGM

Summarizes the latest research on the pathophysiology of migraine and comorbid conditions

A Volume in the *Handbook of Clinical Neurology Series*

KEY FEATURES

- Summarizes research and clinical information on the pathophysiology of migraines
- Explores the pathophysiology of aura, photophobia and phonophobia
- Discusses migraine triggers
- Reviews migraine subtypes and comorbid conditions in migraine
- Explores the relationship of migraine to chronic pain, and cerebrovascular and psychological conditions
- Concludes with future directions in migraine research and treatment

DESCRIPTION

Migraine Biology, Diagnosis, and Co-Morbidities, Volume 198 covers a wide range of issues related to migraine. The epidemiology, global and personal impacts of migraine are covered, including topics on the pathophysiology of migraine and migraine aura, the pathophysiology of the associated symptoms of photophobia and phonophobia, and the genetics of migraine. The classification and diagnostic criteria of common and uncommon subtypes of migraine are also explored in detail, including childhood variants. Issues related to the diagnosis and management of vestibular migraine and the co-morbid disorder of persistent postural-perceptual dizziness are also covered.

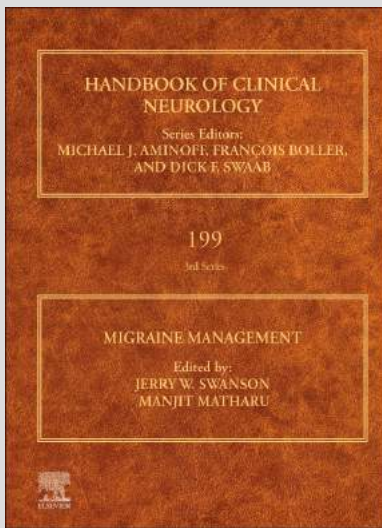
The important comorbidities of migraine such as anxiety, depression and other forms of chronic pain will also be discussed, along with the current state and future directions of migraine research and management.



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LIFE SCIENCES Neuroscience
<https://virtuale.elsevier.com>, www.elsevier.com



Migraine Management, Vol 199

Edited by: **Jerry W. Swanson**, Mayo Clinic College of Medicine and Science, Rochester, MN, United States and **Manjit Matharu**, Consultant Neurologist, National Hospital for Neurology and Neurosurgery, Queen Square, London, United Kingdom

ISBN: 9780128233573
PUB DATE: Feb 01, 2024
LIST PRICE: £215.00 / \$275.00 / €240.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 445
AUDIENCE: Clinical neurologists
BIC CODES: MJG, MJN, MBGR, PSAN
THEMA CLASSIFICATION:
THEMAMKJ; THEMAMBGR;
THEMAMJG; THEMAMFGM;
THEMAPSAN

Summarizes best practices in treating migraines, including different types of migraines, migraines in different patient populations, and in different clinical settings

A Volume in the *Handbook of Clinical Neurology* Series

KEY FEATURES

- Summarizes evidence-based best treatment for migraines
- Differentiates treatment based on patient population, migraine type and clinical setting
- Includes pharmacological, biobehavioral and physical treatments
- Includes specialized treatments for children, the elderly and pregnant patients

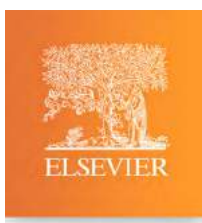
DESCRIPTION

Migraine Management, Volume 199 covers the effective treatment of migraines, including different subtypes of migraines in different patient populations. The classification and diagnostic criteria of common and uncommon subtypes of migraine is explored in detail, including childhood variants. An in-depth analysis of the pharmacology of acute and prophylactic agents is presented, along with an evidence-based review of pharmacologic management. This includes recently developed CGRP monoclonal antibodies and non-peptide small molecule CGRP antagonists. Advances in neuromodulatory treatments, both noninvasive and implantable, are also critically reviewed.

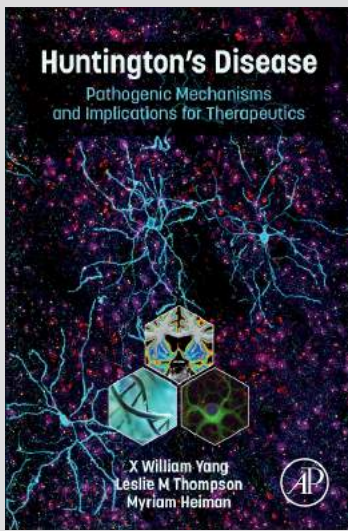
Finally, specific treatment-related issues in pregnancy and lactation and childhood as well as the elderly are covered. Issues related to the diagnosis and management of vestibular migraine and the co-morbid disorder of persistent postural-perceptual dizziness is also explored.



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LIFE SCIENCES Neuroscience
<https://virtuale.elsevier.com>, www.elsevier.com



Huntington's Disease

Pathogenic Mechanisms and Implications for Therapeutics

Edited by: **X. William Yang**; **Myriam Heiman**, Department of Brain and Cognitive Sciences, MIT; Picower Institute for Learning and Memory, USA and **Leslie M. Thompson**, Dr. Thompson is a Donald Bren and Chancellor's Professor in the Departments of Psychiatry and Human Behavior and Neurobiology and Behavior at the University of California Irvine. She has studied Huntington's disease (HD) for most of her scientific career and was a member of the international consortium that identified the causative gene for HD in 1993. Since that time, the Thompson laboratory has been actively engaged in investigating the fundamental molecular and cellular events that underlie

ISBN: 9780323956727
PUB DATE: Feb 01, 2024
LIST PRICE: £115.00 / \$150.00 / €130.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 400
AUDIENCE: Researchers and trainees in the field Huntington's disease and related neurodegenerative disorders
Clinicians or clinical trainees in Neurology Industry sectors/pharmaceutical or biotech companies: scientists and R&D or clinical leaders in these companies that are developing novel therapies for HD and related neurodegenerative disorders
BIC CODES: PSAN, MFG
THEMA CLASSIFICATION: THEMAPSAN; THEMAMKJ

A comprehensive review of the pathogenic mechanisms of Huntington's Disease

KEY FEATURES

- Explores the molecular and cellular bases of Huntington's disease pathogenesis
- Investigates the tools and model systems for basic and translational research in Huntington's disease
- Reviews the biology of human Huntington and Huntington's disease

DESCRIPTION

Huntington's Disease: Pathogenic Mechanisms and Implications for Therapeutics reviews the most up-to-date content on HD pathogenic mechanisms and cutting-edge testing of therapeutic strategies for HD. Chapters explore areas such as normal Huntington biology in brain development and function, genetic modifiers of HD in patients, molecular pathogenic mechanism in HD, and mechanisms underlying selective neuronal vulnerability. As Huntington's disease (HD) is one of the most common dominantly inherited neurodegenerative disorders, characterized by a clinical triad of movement disorder, cognitive deficits, and psychiatric symptoms, this book is an ideal reference for readers interested in its pathologies.

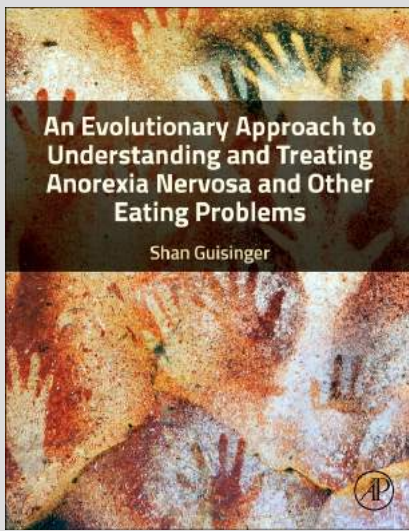


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LIFE SCIENCES Neuroscience

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An Evolutionary Approach to Understanding and Treating Anorexia Nervosa and Other Eating Problems

Shan Guisinger, Professor, The University of Montana, Missoula, USA

ISBN: 9780443189043
PUB DATE: Dec 01, 2023
LIST PRICE: £115.00 / \$150.00 / €131.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 230
AUDIENCE: Psychologists, Psychotherapists, Psychiatrists, Dieticians, school counselors, pediatricians, and other physicians
BIC CODES: MMZR
THEMA CLASSIFICATION: THEMAMKZR

A novel approach to the treatment of Anorexia nervosa

KEY FEATURES

Approx.230 pages

DESCRIPTION

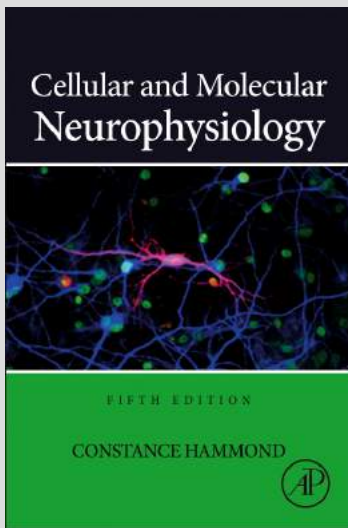
Approx.230 pages



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LIFE SCIENCES Psychology
<https://virtuale.elsevier.com>, www.elsevier.com



Cellular and Molecular Neurophysiology, 5e

Constance Hammond, PhD, Director of Research INSERM U901, Institut de Neurobiologie de la Méditerranée, Marseilles, France

ISBN: 9780323988117
PREVIOUS ISBN: 9780123970329
PUB DATE: Oct 31, 2023
LIST PRICE: £123.00 / \$136.00 / €139.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 330
AUDIENCE: Neurophysiologists, neurobiologists, and neurologists, students in graduate-level courses on neurophysiology
BIC CODES: JMM, PSAN
THEMA CLASSIFICATION: THEMAPSAN; THEMAJMM

Tutorial reference for neurophysiologists and students on the molecular and cellular physiology of neurons and synapses

KEY FEATURES

- Authoritative foundational coverage of basic cellular and molecular neurophysiology
- Includes new chapters on recording neuronal activity, ionotropic and metabotropic receptors for sensory transduction
- Provides fifteen appendices that describe how neurobiological techniques are interspersed in the text
- Presents enhanced coverage of new methodologies and experimental techniques

DESCRIPTION

Cellular and Molecular Neurophysiology, Fifth Edition is the only up-to-date textbook on the market that focuses on the molecular and cellular physiology of neurons and synapses. Hypothesis-driven rather than a dry presentation of the facts, the book promotes a real understanding of the function of nerve cells that is useful for practicing neurophysiologists and students in graduate-level courses on the topic alike. This new edition explains the molecular properties and functions of excitable cells in detail and teaches students how to construct and conduct intelligent research experiments. The content is firmly based on numerous experiments performed by top experts in the field.

The new edition contains new chapters on recording neuronal activity, ionotropic and metabotropic receptors for sensory transduction, and a section containing exercises for further learning. This book will be a useful resource for neurophysiologists, neurobiologists, neurologists, and students taking graduate-level courses on neurophysiology.



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LIFE SCIENCES Neuroscience
<https://virtuale.elsevier.com>, www.elsevier.com



Phytoremediation, Vol 109

Edited by: **Michel Chalot**, Université de Lorraine, Laboratoire Interaction Arbres Microorganismes Faculté des Sciences, Vandoeuvre Cedex, France

ISBN: 9780443158254
PUB DATE: Feb 01, 2024
LIST PRICE: £148.00 / \$214.00 / €153.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 300
AUDIENCE: Researchers and Scientists
BIC CODES: PSA
THEMA CLASSIFICATION: THEMAPS

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

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in Advances in Botanical Research
- Updated release includes the latest information on Phytoremediation

DESCRIPTION

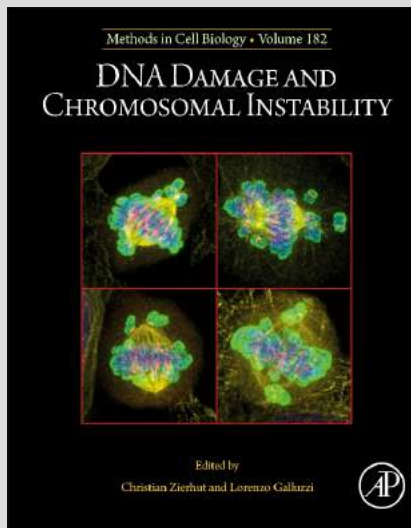
Advances in Botanical Research Volume 109 highlights new advances in the field, with this new volume presenting interesting topics on Phytoremediation



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SERIALS Agricultural & Biological Sciences
<https://virtuale.elsevier.com>, www.elsevier.com



DNA Damage and Chromosomal Instability, Vol 182

Edited by: **Christian Zierhut** and **Lorenzo Galluzzi**, Assistant Professor of Cell Biology in Radiation Oncology, Department of Radiation Oncology, Weill Cornell Medical College, NY, USA

ISBN: 9780443188985
PUB DATE: Feb 01, 2024
LIST PRICE: £139.00 / \$175.00 / €160.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 300
AUDIENCE: Researchers and students
BIC CODES: PSC, PSD
THEMA CLASSIFICATION: THEMPSF; THEMPS; THEMPSD

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

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in the *Methods in Cell Biology* series
- Updated release includes the latest information on the DNA Damage and Chromosomal Instability

DESCRIPTION

DNA Damage and Chromosomal Instability, Volume 182 in the *Methods in Cell Biology* series, presents interesting chapters on a variety of timely topics, including Induction of chromosome-specific micronuclei and chromothripsis by centromere inactivation, Generation of aneuploid cells and assessment of their ability to survive in presence of chemotherapeutic agents, Genetic reporters to detect and quantify homologous recombination in yeast, Mapping histone variant genomic distribution: exploiting SNAP-Tag labelling to follow the dynamics of incorporation of H3 variants, Enrichment of DNA replication intermediates by EdU pull down, Nascent DNA sequencing and its diverse applications in genome integrity research, and much more. Additional chapters cover Enrichment of DNA replication intermediates by EdU pull down, DNA curtains for studying phase separation mechanisms of DNA-organizing proteins, Visualizing the Dynamics of DNA Replication and Repair at the Single-Molecule Level, Cloning and Expansion of Repetitive DNA Sequences, Using an ImageJ-based script to detect replication stress and associated cell cycle exit from G2 phase by fluorescence microscopy *Arne Lindqvist*



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SERIALS Biochemistry, Genetics & Molecular Biology
<https://virtuale.elsevier.com>, www.elsevier.com

COVER IMAGE
FORTHCOMING

Adrenal Gland, Vol 124

Gerald Litwack, Emeritus Founding Chair and Professor, Geisinger Commonwealth School of Medicine and Emeritus Professor, Rutgers University, United States

ISBN: 9780443194009

PUB DATE: Feb 01, 2024

LIST PRICE: £145.00 / \$210.00 /
€150.00

DISCOUNT:

FORMAT: Hardback

TRIM:

PAGES: c. 280

AUDIENCE: Undergraduates,
graduates, academics, and
researchers in the field of vitamins and
hormones

BIC CODES: MJG, PSB

THEMA CLASSIFICATION:
THEMAPSB; THEMAMJG

Edited by some of the best scientists in the field, this series presents the latest updates in the field of vitamins and hormones

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in *Vitamins and Hormones* series
- Updated release includes the latest information on the Adrenal Gland

DESCRIPTION

Adrenal Gland, Volume 124 in the *Vitamins and Hormones* series, highlights new advances in the field with this new volume presenting interesting chapters. Each chapter is written by an international board of authors.



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SERIALS Biochemistry, Genetics & Molecular Biology
<https://virtuale.elsevier.com>, www.elsevier.com

COVER IMAGE
FORTHCOMING

Enhancement of Brain Functions Prompted by Physical Activity, Vol 283

Edited by: **Chi-Hung Juan**, Institute of Cognitive Neuroscience, National Central University, Taiwan; **Chun-Hao Wang**, National Cheng Kung University, Taiwan and **Shih-Chun Kao**, Department of Health and Kinesiology, Purdue University, IN, USA

ISBN: 9780443221965
PUB DATE: Feb 01, 2024
LIST PRICE: £199.95 / \$288.00 / €206.00
DISCOUNT:
FORMAT: Hardback
TRIM:
PAGES: c. 350
AUDIENCE: Undergraduates, graduates, academics, and researchers in the field of neurology and brain research
BIC CODES: PSAN, JMM
THEMA CLASSIFICATION: THEMAPSAN; THEMAJMM

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

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in Progress in Brain Research series
- Updated release includes the latest information on Enhancement of Brain Functions Prompted by Physical Activity

DESCRIPTION

Enhancement of Brain Functions Prompted by Physical Activity, Volume 283 in the *Progress in Brain Research* series, highlights new advances, with this updated volume presenting chapters on a variety of timely topics, including Examining effects of exercise with different cognitive load on executive function: A Systematic Review, Exercise habits and mental health: Exploring the significance of multimodal imaging markers, Using System Factorial Technology to Study the Effect of Aerobic Exercise on Young Adults' Attentional Control, A Precision-Mapping Approach to Physical Exercise Interventions Targeting Cognition, Physical activity, chronic stress and verbal memory performance: mediating effects of resting state brain activity, and much more.



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

COVER IMAGE
FORTHCOMING

Translational Approaches to Non-Motor Symptoms of Neurodegenerative Diseases, Vol 174

Edited by: **Mahmoud Iravani**, Associate Professor, University of Hertfordshire, Hatfield, UK and **Susan Duty**, Professor in Pharmacology and Neuroscience, King's College London, London, UK

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FORMAT: Hardback
TRIM:
PAGES: c. 300
AUDIENCE: Undergraduates, graduates, academics, and researchers in the field of Non-Motor Symptoms of Neurodegenerative Diseases
BIC CODES: PSAN, MJN
THEMA CLASSIFICATION: THEMAPSAN; THEMAMKJ

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

KEY FEATURES

- Provides the authority and expertise of leading contributors from an international board of authors
- Presents the latest release in International Review on Neurobiology series
- Updated release includes the latest information on Translational Approaches to Non-Motor Symptoms of Neurodegenerative Diseases

DESCRIPTION

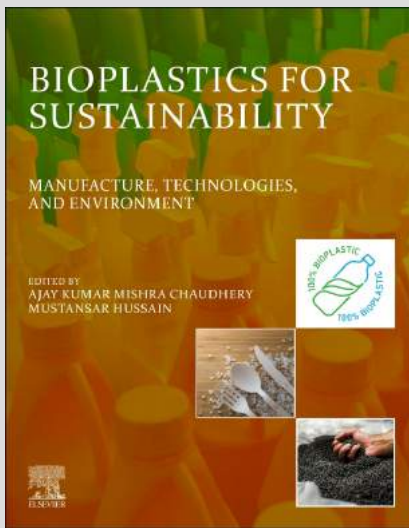
Translational Approaches to Non-Motor Symptoms of Neurodegenerative Diseases, Volume 173 in the *International Review on Neurobiology* series, highlights new advances in the field with this new volume presenting interesting chapters on topics such as A general clinical overview of the non-motor symptoms, Stress/fatigue/cognitive decline Sleep/autonomic failure, A general clinical overview of the non-motor symptoms – psychiatric symptoms, Psychosis, Cognitive Decline, Non-clinical Aspect of non-motor symptoms: Animal Models, Assessment and treatment of cognitive decline in rodent and primate models, Pain in PD models, Affective disorders in PD models, Sleep and circadian dysregulation and EEG disruption in rodent models, and much more.



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SERIALS Neuroscience
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Bioplastics for Sustainability

Manufacture, Technologies, and Environment

Edited by: **Ajay Kumar Mishra**, Full Professor, Department of Chemistry, School of Applied Science, KIIT Deemed University, Bhubaneswar, India and **Chaudhery Mustansar Hussain**, Adjunct Professor, New Jersey Institute of Technology (NJIT)

ISBN: 9780323951999
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FORMAT: Paperback

TRIM:
PAGES: c. 480

AUDIENCE: Academia: Researchers and advanced students across polymer science, sustainable materials, plastics engineering, materials science, chemistry, environmental science, and engineering. Industry: Engineers, scientists and R&D professionals with an interest in sustainable manufacture and application of bioplastics, across a range of products, parts, and industries

BIC CODES: TGM, TDCP
THEMA CLASSIFICATION: THEMATDCP; THEMATGMP; THEMATDPF



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A novel guide covering state-of-the-art technologies and addressing key challenges in terms of scale-up, regulations, environmental impact, and sustainable use of bioplastics

KEY FEATURES

- Presents the latest advances in novel materials and manufacture techniques for bioplastics.
- Focuses on sustainable use of bioplastics, assessing biodegradability, life cycle, recycling, waste, and environmental impact.
- Addresses other key considerations, such as industrial scale-up, commercialization, policies, and regulation.

DESCRIPTION

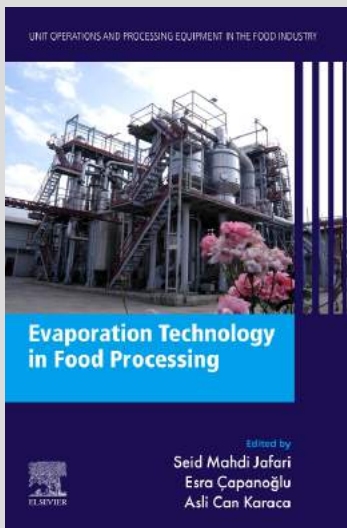
Bioplastics for Sustainability: Manufacture, Technologies, and Environment offers an innovative approach to bioplastics, integrating state-of-the-art materials and technologies with detailed analysis of life cycle, recycling, circularity, and environmental impact of bioplastics, and enabling circular utilization and successful scale-up of bioplastics.

The book begins by introducing the fundamentals of bioplastics – including biodegradable, compostable, and oxodegradable materials – and discusses the various factors involved in encouraging commercial uptake of these materials. The second part of the book highlights cutting-edge approaches to the production of bioplastics, covering novel sources such as microalgae and organic waste, and solutions for industrial scale manufacturing. This is followed by detailed chapters on other key areas of technology and standards for bioplastics, specifically in terms of biodegradability and recycling, as well as examining other key considerations such as commercialization and regulations. Finally, the environmental impact of bioplastics and routes to environmentally-friendly usage are presented.

This is a valuable resource for researchers and advanced students across polymer science, sustainable materials, plastics engineering, materials science, chemistry, environmental science, and engineering. In an industrial setting, this book supports engineers, scientists, and R&D professionals with an interest in sustainable manufacture and application of bioplastics, across a range of products, parts, and industries.

ENGINEERING Materials

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



Evaporation Technology in Food Processing

Unit Operations and Processing Equipment in the Food Industry

Edited by: **Seid Mahdi Jafari**, Professor, Faculty of Food Science and Technology, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran; **Esra Çapanoğlu**, Professor of Istanbul Technical University, Food Engineering Department, Turkey and **Asli Can Karaca**, Associate Professor within the Department of Food Engineering at Istanbul Technical University, Turkey.

ISBN: 9780128187647
PUB DATE: Feb 01, 2024
LIST PRICE: £155.00 / \$250.00 / €180.00
DISCOUNT:
FORMAT: Paperback
TRIM:
PAGES: c. 460
ILLUSTRATIONS: Approx. 100 illustrations
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

Covers different evaporation facilities and equipment for various types of food products

KEY FEATURES

- Thoroughly explores the processing operations and equipment necessary for the evaporation of different food products applying steam
- Brings new opportunities in food processing through innovative evaporation processes
- Covers the design, control and efficiency of evaporators

DESCRIPTION

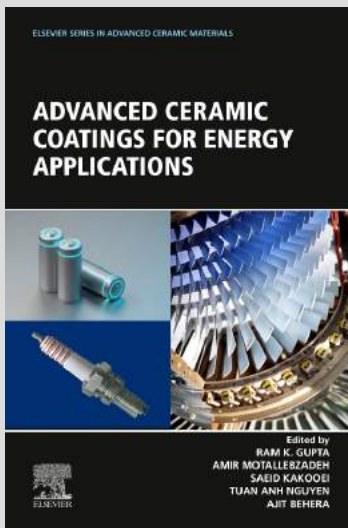
Evaporation Technology in Food Processing, in the Unit Operations and Processing Equipment in the Food Industry series, explains the processing operations and equipment necessary for recent invented non-thermal processing of different food products, including ozonation, plasma processing, pulsed electric fields, high pressure processing, irradiation and high frequency processing. These processes and unit operations are very important in terms of achieving favorable sensory properties and energy usage. Written by experts in the field of food engineering, this book targets industrial engineers working in the field of food processing and within food factories. The book is divided into four sections: "Evaporation basics," "Different types of evaporators," "Application of evaporators in the food industry", and "Design, control and efficiency of evaporators". All chapters emphasize basic texts relating to experimental, theoretical, computational, and/or applications of food engineering principles and the relevant processing equipment to evaporation unit operations.



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Advanced Ceramic Coatings for Energy Applications

Edited by: **Ram Gupta**, Associate Professor, Department of Chemistry, Pittsburg State University, Pittsburg, KS, USA; **Amir Motallebzadeh**, Senior Researcher, Surface Science and Technology Center (KUYTAM), Koc University, Turkey; **Saeid Kakoeei**, Senior Research Engineer (Research Scholar), School of Materials Engineering, Purdue University, West Lafayette, Indiana, USA; **Tuan Anh Nguyen**, PhD, Principal Research Scientist, Institute for Tropical Technology, Vietnam Academy of Science and Technology, Hanoi, Vietnam and **Ajit Behera**, Assistant Professor, Metallurgical and Materials Engineering Department, National Institute of Technology, Rourkela, Odisha, India

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TRIM:
PAGES: c. 670
AUDIENCE: Academic and industrial researchers working on coatings, especially advanced ceramic coatings, material scientists, chemists, physicists and engineers, industrial R&D in energy and medical sectors, Regulatory bodies, early career scientists, and postgraduate students in materials and engineering sciences
BIC CODES: TDCP, TDCQ
THEMA CLASSIFICATION: THEMATDPF; THEMATGM; THEMATGMP

Comprehensive coverage of advanced ceramic coatings for energy applications

A Volume in the *Elsevier Series on Advanced Ceramic Materials Series*

KEY FEATURES

- Includes comprehensive coverage of advanced ceramic coatings for energy applications
- Features the latest progress and recent technological developments
- Includes comparisons to other coatings types (e.g., polymers, metals, and enamel) to demonstrate potential, limitations, and differences
- Contains extensive case studies and worked examples

DESCRIPTION

Advanced Ceramic Coatings for Energy Applications covers recent developments in conducting electrodes, photovoltaics, solar cells, battery applications, fuel cells, electrocatalysts, photocatalysts, and supercapacitors. The book is one of four volumes that together provide a comprehensive resource in the field of Advanced Ceramic Coatings, also including titles covering: fundamentals, manufacturing, and classification; biomedical applications; and emerging applications. These books will be extremely useful for academic and industrial researchers and practicing engineers who need to find reliable and up-to-date information about recent progresses and new developments in the field of advanced ceramic coatings.

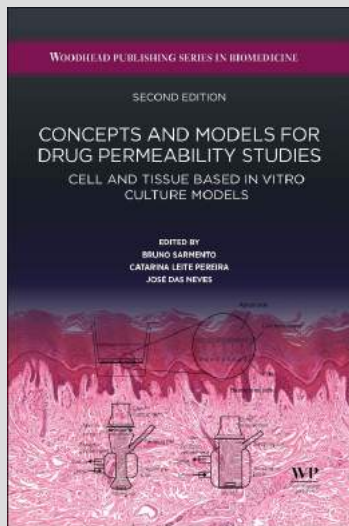
Smart ceramic coatings contain multifunctional components are now finding application in transportation and automotive industries, in electronics, and energy, sectors, in aerospace and defense, and in industrial goods and healthcare. Their wide application and stability in harsh environments are only possible due to the stability of the inorganic components that are used in ceramic coatings.



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Concepts and Models for Drug Permeability Studies, 2e

Cell and Tissue based In Vitro Culture Models

Bruno Sarmento, Affiliated Investigator, INEB—Instituto de Engenharia Biomédica, University of Porto, Portugal and Assistant Professor, Pharmaceutical Technology, Department of Pharmaceutical Sciences, ISCS-N, Gandra, Portugal; **Catarina Leite Pereira**, Junior Researcher Research and Innovation in Health (i3S), University of Porto Portugal, Portugal and **José Das Neves**, Assistant Researcher Institute for research and Innovation in Health (i3S), University of Porto, Portugal

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€220.00

DISCOUNT:

FORMAT: Hardback

TRIM:

PAGES: c. 465

AUDIENCE: Drug discovery and drug formulation scientists. Undergraduate and post-graduate students of biotechnology, pharmaceutical sciences, biochemistry, medicine or any related biomedical subject

BIC CODES: MMG, KNDP

THEMA CLASSIFICATION:

THEMAKND; THEMAMKG

Compilation of important buccal, gastric, intestinal, pulmonary, nasal, vaginal, ocular, renal, skin, and blood-brain barrier in vitro models for predicting drug permeability

KEY FEATURES

- Summarizes the current advances in the use of permeability models in drug transport
- Covers the most important buccal, gastric, intestinal, pulmonary, nasal, vaginal, ocular, renal, skin, and blood–brain barrier in vitro models. Includes case studies to facilitate understanding of various concepts in computer-aided applications
- Updates in the second edition include organ-on-chip devices, 3D advanced models (multiple layered tissues, organoids, etc.), and multicompartmentalized tissue models

DESCRIPTION

Concepts and Models for Drug Permeability Studies: Cell and Tissue Based in Vitro Culture Models, Second Edition, summarizes the most important developments in in vitro models for predicting the permeability of drugs.

This book is structured around three different approaches, summarizing the most recent achievements regarding models comprising (i) immortalized cells with an intrinsic ability to grow as monolayers when seeded in permeable supports, (ii) primary cells isolated from living organisms and directly cultured as barrier monolayers, and (iii) tissue-based models constructed with cell lines and extracellular matrix that resembles the tridimensional structure of mucosae and other biological membranes, or animal/patient-derived tissues. Each model is covered in detail, including the protocol of generation and application for specific drugs/drug delivery systems. The equivalence between in vitro cell and tissue models and in vivo conditions is discussed, highlighting how each model may provisionally resemble different drug absorption route.

Chapters included in the first edition were updated with relevant data published in recent years, while four new chapters were included to reflect new emerging directions and trends in drug permeability models.



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