## **CONTENTS**

Preface Acknowledgments	xv xix
Chapter 1 INTRODUCTION TO RESEARCH DESIGN IN CRIMINAL JUSTICE	1
Identifying a Problem	2
Hypothesis Development and Testing	$\frac{-}{4}$
Scientific Language	5
Variables	6
Operationalization	6
Aggregation	6
Qualitative and Quantitative Research	7
Participatory Research	8
Induction/Deduction	8
Summary	9
Key Terms	9
Review Questions	11
Useful Websites	11
References	11
Chapter 2	
ETHICS IN SCIENTIFIC RESEARCH	13
The History of Concern over the Ethical Treatment of Prisoners	13
The Stanford Prison Experiment	14
The Belmont Report	15
Codes of Professional Ethics	16
The Institutional Review Board	18
Responsibilities of the IRB	18
Anonymity and Confidentiality	19
Deceiving Participants	19
Voluntary Participation	19
Vulnerable Populations	20

Incentives	20
Additional Concerns Regarding IRBs	21
Applications: Ethical Examples and What Went Wrong	21
Josef Mengele	21
Tuskegee Syphilis Study	22
University of California Schizophrenia Study	22
Hepatitis Studies at Willowbrook State School	22
Summary	23
Key Terms	23
Review Questions	24
Useful Websites	24
References	24
Chapter 3	
MEASUREMENT AND INSTRUMENTATION	27
Conceptualization and Operationalization	27
Types of Variables	28
Levels of Measurement	29
Scaling Procedures	31
Validity and Reliability	34
Validity	34
Reliability	35
Comparing Validity and Reliability	37
Summary	38
Key Terms	38
Review Questions	40
Useful Websites	40
References	41
Chapter 4	
SAMPLING	43
Sampling in General	43
Probability Sampling	44
Simple Random Sampling	45
Systematic Random Sampling	46
Stratified Random Sampling	46
Cluster Sampling	47
Alternative Methods: Nonprobability Sampling	48
Convenience/Available Subjects Sampling	48
Quota Sampling	49
Purposive Sampling	49
Snowball Samples	50
Sampling Bias	50
Sampling Distribution and Errors	52

Confidence Intervals	53
Confidence Levels	53
Power Calculation	53
Summary	54
Key Terms	54
Review Questions	56
Useful Websites	57
References	57
Chapter 5	
CRIME MEASUREMENT	61
Official Statistics	61
Uniform Crime Reports	61
Limitations of the UCR	64
National Incident-Based Reporting System	66
NIBRS vs. UCR	66
Victim Surveys	68
National Crime Victimization Survey	68
NCVS vs. UCR	71
Self-Report Offender Surveys	72
Summary	72
Key Terms	73
Review Questions	75
Useful Websites	75
References	75
Chapter 6	
SURVEY RESEARCH AND QUESTIONNAIRE DEVELOPMENT	79
Is a Survey Appropriate?	79
Modes of Survey Administration	80
Web or E-Mail Surveys	80
Mail- or Paper-Based Surveys	81
Prenotifications and Boosters	82
Phone Surveys	82
Face-to-Face Interviewing	84
Factors Influencing Response Rates	86
Smartphone-Based Surveys or Ecological Momentary	
Assessments (EMAs)	87
Developing the Survey	88
Designing the Questionnaire	90
The Informed Consent Process	90
Building the Questionnaire	90
Summary	92
Key Terms	93

Review Questions	94
Useful Websites	95
References	95
Chapter 7	
SECONDARY DATA ANALYSIS	99
Secondary Data	99
Official Data versus Self-Report Data	100
Major Secondary Sources for Criminological Research	102
Uniform Crime Reports	102
National Crime Victimization Survey	103
National Survey on Drug Use and Health	104
Monitoring the Future	105
General Social Survey	106
National Longitudinal Survey of Youth	106
U.S. Census Bureau	106
Methods of Devising Secondary Data Analysis Resources	
for Criminological Research	107
Content Analysis	107
Meta-Analysis	108
Summary	109
Key Terms	110
Review Questions	111
Useful Websites	111
References	111
Chapter 8	118
EXPERIMENTAL AND QUASI-EXPERIMENTAL DESIGNS	117
An Introduction to the Experimental Design	117
Steps to Conducting an Experiment	119
The Experimental Intervention	122
Experiments and Causal Inference	123
History	123
Maturation	123
Test	123
Instrumentation	124
Statistical Regression to the Mean	124
Selection Bias	125
Attrition	125
Temporal Ordering	125
Other Factors Affecting Experimental Results	126
Criteria for Evaluating Causation	126
Multilevel Random Selection	127
Quasi-Experimental Designs	128

Nonequivalent Groups Designs	128
Time-Series Designs	129
Summary	130
Key Terms	131
Review Questions	132
Useful Websites	133
References	133
Chapter 9	
LONGITUDINAL DESIGNS	135
Why Use a Longitudinal Design?	135
Instrumentation	136
Retaining Your Sample Over Time	137
Types of Longitudinal Designs	137
Repeated Cross-Sectional versus Longitudinal Designs	138
Intensive Longitudinal Designs	139
Retrospective Longitudinal Design	139
When Are Longitudinal Designs Appropriate?	141
Summary	142
Key Terms	142
Review Questions	143
Useful Websites	144
References	144
Chapter 10	
CASE-CONTROL DESIGNS	149
Case-Control Design	149
Participant Selection	150
Matching Cases and Controls	152
Methods of Analysis and Interpretation	154
Strengths and Weaknesses of the Case-Control Method	155
Summary	156
Key Terms	157
Review Questions	158
Useful Websites	158
References	158
Chapter 11	
QUALITATIVE & MIXED METHOD DESIGNS	161
Qualitative Research in Criminology and Criminal Justice	161
Types of Qualitative Studies	163
Interviews	163
Focus Groups	164

## **xiv** CONTENTS

166 168 168 169
168
160
109
170
170
171
173
173
174
176
178
181
182
102
185
185
185 185
185 185 186
185 185 186 186