

CONTENTS

Preface	.xi
Introduction	.xiii
Part I Planning Phase	1
Chapter 1 Identifying a Research Topic	3
<i>Research Defined</i>	3
<i>Finding a Topic</i>	3
<i>"Think Research"</i>	6
<i>Generating an Idea List</i>	7
<i>Making a Final Selection</i>	8
<i>Conclusion</i>	9
<i>References</i>	9
Chapter 2 Reviewing the Literature	11
<i>Searching the Literature</i>	11
<i>Read Critically and Make Notes</i>	13
<i>Writing the Review</i>	14
<i>Conclusion</i>	16
<i>References</i>	16
Chapter 3 Theory	17
<i>Important Definitions</i>	17
<i>Development Stages of Theories</i>	18

Using Research to Test Theory	19
Using Theory to Inform Research	21
The Concept Tree	22
Concept Tree Example	26
Issues Related to Theory and Research	27
Conclusion	30
References	30
Part II Design Phase	33
Chapter 4 Quantitative or Qualitative Research?	35
Name-Calling	35
Defining Quantitative and Qualitative Research	36
Quantitative and Qualitative Methods	38
Philosophical Underpinnings	41
The Quantitative Paradigm	42
The Qualitative Paradigm	45
Characteristics of Qualitative Research	47
Conclusion	49
References	49
Chapter 5 Experimental Research Designs	53
Experimental Design	53
Quasi-Experimental Designs	62
Basic Quasi-Experimental Designs	63
Conclusion	67
References	67
Chapter 6 Descriptive Research Designs, Mixed Methods, and Meta-Analysis	69
Simple Descriptive Designs	70
More Complex Descriptive Designs	72
Secondary Analysis	76
Mixed Designs and Mixed Methods	77
Meta-Analysis	82
Conclusion	89
References	89

Chapter 7	Epidemiological and Longitudinal Designs	93
	Epidemiological Designs	93
	Longitudinal Studies	96
	Conclusion	100
	References	100
Chapter 8	Sampling	103
	Probability Sampling	103
	Purposeful Sampling	115
	Complex Sampling Strategies	119
	Conclusion	120
	References	120
Chapter 9	Reliability	123
	What Is Reliability?	123
	When Is Reliability a Concern?	123
	Measurement	124
	Consistency	126
	Intrarater Reliability	127
	Intercoder Reliability	127
	Stability	128
	Homogeneity	130
	Reliability of Physical Measures	132
	Improving Reliability	134
	Conclusion	136
	References	136
Chapter 10	Validity	139
	Content Validity	140
	Construct Validity	147
	Criterion Validity	149
	Sensitivity and Specificity	150
	Conclusion	151
	References	151

Chapter 11	Trustworthiness of Qualitative Research	153
	<i>Example: Coming of Age in Samoa</i>	154
	Credibility	155
	Transferability	160
	Dependability	160
	Confirmability	161
	Additional Criteria for Trustworthiness	162
	Conclusion	166
	References	166
Part III	Implementation Phase	169
Chapter 12	Research Ethics	171
	A Troubled Past	171
	Principles of Ethical Conduct in Research	173
	Application of the Principles	175
	Basic Elements of Informed Consent	179
	Issues Related to Ethical Research Conduct	184
	Ethical Conduct Related to Animal Model Research	187
	Conclusion	188
	References	189
Chapter 13	Participant Recruitment	191
	Recruitment	191
	Retention	201
	Conclusion	204
	References	205
Chapter 14	Data Collection: Testing and Observation	207
	Initial Preparation for Data Collection	207
	Tests of Function	212
	Physical Assessment Measures	214
	Biological Tests	215
	Observation	218
	Conclusion	229
	References	229

Chapter 15	Data Collection: Interviewing	233
	Structured and Semistructured Interviews	234
	Unstructured Interviews	237
	Focus Groups	240
	Conclusion	245
	References	245
Chapter 16	Internet, Secondary Analysis, and Historical Research	247
	Internet-Based Research	247
	Secondary Data Analysis	252
	Historical Research	255
	Conclusion	261
	References	261
Chapter 17	Intervention	265
	Interventions	266
	Preparing to Implement the Intervention	270
	Implementation	277
	Conclusion	279
	References	279
Part IV	Analysis and Interpretation Phase	281
Chapter 18	Quantitative Data Management	283
	Managing the Data	284
	Selecting the Software for the Database	288
	Database Creation	289
	Conclusion	294
	References	294
Chapter 19	Basic Quantitative Data Analysis	297
	Data Cleaning	297
	Missing Data	299
	Visual Representations	302
	Basic Descriptive Statistics	307
	Bivariate Association	313
	Additional Measures of Association	314

	Conclusion	316
	References	316
Chapter 20	Inferential Analysis	319
	Analysis of Variance	319
	Regression Analysis	336
	Conclusion	355
	References	356
Chapter 21	Analyzing Qualitative Data	359
	Processing the Data	359
	Why Quantify?	361
	Structured and Semistructured Analysis	362
	Unstructured Analysis	367
	Ethnographic Analysis	374
	Grounded Theory	378
	Phenomenological Analysis	383
	Conclusion	388
	References	388
Part V	Reporting	391
Chapter 22	Presenting Your Research Findings	393
	Poster Presentations	393
	Podium Presentations	395
	Conclusion	397
	References	397
Chapter 23	Publishing Your Research Results	399
	Reporting to Funders	399
	Reporting to the Public	399
	Publishing in Professional Journals	400
	Special Consideration for Qualitative Research Manuscripts	401
	Reasons for Acceptance	402
	Reasons for Rejection	402
	Resubmission After Rejection	402

Conclusion	403
References	403
For Further Reading	403
Chapter 24 Preparing Research Proposals	405
Thesis and Dissertation Proposals	405
Guidance for Writing a Thesis or Dissertation Proposal	406
Proposals for Funding	407
Suggestions and Guidelines for Preparing Applications for Funding	413
Qualitative Proposals: Special Considerations	416
Conclusion	417
References	417
Chapter 25 Evidence-Based Practice	419
Why Evidence-Based Practice?	420
The Evolution of Evidence-Based Practice	421
Criteria for Evidence-Based Practice Recommendations	422
Research Evidence and Healthcare Policy	428
The Contribution of Qualitative Research to Evidence-Based Practice	428
Conclusion	429
References	429
Chapter 26 Developing a Program of Research	433
The Value of Building a Program of Research	433
Launching a Program of Research	434
A Fictional Example	436
References	438
Appendix A The Belmont Report	439
Appendix B The Nuremberg Code and the Declaration of Helsinki	453
Appendix C Framingham Heart Study Consent Forms	459
Index	483