

CONTENTS

Foreword	xi
Contributors	xv
 PART I INTRODUCTION 1	
1. Research Synthesis as a Scientific Enterprise <i>Harris Cooper and Larry V. Hedges</i>	3
 PART II FORMULATING A PROBLEM FOR A RESEARCH SYNTHESIS 15	
2. Hypotheses and Problems in Research Synthesis <i>Judith A. Hall, Linda Tickle-Degnen, Robert Rosenthal, and Frederick Mosteller</i>	17
3. Statistical Considerations <i>Larry V. Hedges</i>	29
 PART III SEARCHING THE LITERATURE 39	
4. Scientific Communication and Literature Retrieval <i>Howard D. White</i>	41
5. Using Reference Databases <i>Jeffrey G. Reed and Pam M. Baxter</i>	57
6. Research Registers <i>Kay Dickersin</i>	71
7. The Fugitive Literature <i>MaryLu C. Rosenthal</i>	85

PART IV EVALUATING THE LITERATURE 95

8.	Judging Research Quality	97
	<i>Paul M. Wortman</i>	
9.	Identifying Potentially Interesting Variables and Analysis Opportunities	111
	<i>Mark W. Lipsey</i>	
10.	Systematic Coding for Research Synthesis	125
	<i>William A. Stock</i>	
11.	Evaluating Coding Decisions	139
	<i>Robert G. Orwin</i>	
12.	Methods for Handling Missing Data in Research Synthesis	163
	<i>Therese D. Pigott</i>	
13.	Managing Meta-Analytic Databases	177
	<i>George Woodworth</i>	

PART V STATISTICALLY DESCRIBING AND COMBINING STUDIES 191

14.	Vote-Counting Procedures in Meta-Analysis	193
	<i>Brad J. Bushman</i>	
15.	Combining Significance Levels	215
	<i>Betsy Jane Becker</i>	
16.	Parametric Measures of Effect Size	231
	<i>Robert Rosenthal</i>	
17.	Measures of Effect Size for Categorical Data	245
	<i>Joseph L. Fleiss</i>	
18.	Combining Estimates of Effect Size	261
	<i>William R. Shadish and C. Keith Haddock</i>	

PART VI STATISTICALLY ANALYZING EFFECT SIZES 283

19.	Fixed Effects Models	285
	<i>Larry V. Hedges</i>	
20.	Random Effects Models	301
	<i>Stephen W. Raudenbush</i>	
21.	Correcting for Sources of Artificial Variation Across Studies	323
	<i>John E. Hunter and Frank L. Schmidt</i>	

PART VII SPECIAL STATISTICAL ISSUES AND PROBLEMS 337

22.	Stochastically Dependent Effect Sizes	339
	<i>Leon J. Gleser and Ingram Olkin</i>	
23.	Examining Explanatory Models Through Research Synthesis	357
	<i>Betsy Jane Becker and Christine M. Schram</i>	

24.	Sensitivity Analysis and Diagnostics	383
	<i>Joel B. Greenhouse and Satish Iyengar</i>	
25.	Publication Bias	399
	<i>Colin B. Begg</i>	
26.	Bayesian Approaches to Research Synthesis	411
	<i>Thomas A. Louis and Daniel Zelterman</i>	
PART VIII REPORTING THE RESULTS OF RESEARCH SYNTHESIS		423
27.	The Reporting Format	425
	<i>Katherine Taylor Halvorsen</i>	
28.	The Visual Presentation and Interpretation of Meta-Analyses	439
	<i>Richard J. Light, Judith D. Singer, and John B. Willett</i>	
PART IX TYING RESEARCH SYNTHESIS TO SUBSTANTIVE ISSUES		455
29.	Meta-Analytic Synthesis for Theory Development	457
	<i>Norman Miller and Vicki E. Pollock</i>	
30.	Using Research Syntheses to Plan Future Research	485
	<i>Alice H. Eagly and Wendy Wood</i>	
PART X SUMMARY		501
31.	Threats to the Validity of Research Syntheses	503
	<i>Georg E. Matt and Thomas D. Cook</i>	
32.	Potentials and Limitations of Research Synthesis	521
	<i>Harris Cooper and Larry V. Hedges</i>	
	Glossary	531
	Appendix A: Data Sets	543
	Appendix B: Tables	549
	Index	553