

Detailed contents of chapters x

Preface xix

Acknowledgements xxiii

PART 1	INTRODUCTION	1
CHAPTER 1	The methods used in psychological research	2
PART 2	CHOICE OF TOPIC, MEASURES AND RESEARCH DESIGN	17
CHAPTER 2	The preliminary stages of research	18
CHAPTER 3	Variables and the validity of research designs	32
CHAPTER 4	Research designs and their internal validity	42
PART 3	METHODS	65
CHAPTER 5	Asking questions I: Interviews and surveys	66
CHAPTER 6	Asking questions II: Measuring attitudes and meaning	79
CHAPTER 7	Observation and content analysis	89
PART 4	DATA AND ANALYSIS	97
CHAPTER 8	Scales of measurement	98
CHAPTER 9	Summarising and describing data	104
CHAPTER 10	Going beyond description	131

CHAPTER 11	Samples and populations	139
CHAPTER 12	Analysis of differences between a single sample and a population	148
CHAPTER 13	Effect size and power	164
CHAPTER 14	Parametric and non-parametric tests	172
CHAPTER 15	Analysis of differences between two levels of an independent variable	181
CHAPTER 16	Preliminary analysis of designs with one independent variable with more than two levels	203
CHAPTER 17	Analysis of designs with more than one independent variable	224
CHAPTER 18	Subsequent analysis after ANOVA or χ^2	241
CHAPTER 19	Analysis of relationships I: Correlation	266
CHAPTER 20	Analysis of relationships II: Linear regression	294
CHAPTER 21	Analysis of relationships III: Logistic regression	319
CHAPTER 22	Analysis of covariance (ANCOVA)	331
CHAPTER 23	Screening data	345
CHAPTER 24	Exploratory factor analysis (EFA)	359
CHAPTER 25	Multivariate analysis	373
CHAPTER 26	Meta-analysis	383
CHAPTER 27	Bayesian statistics	394
CHAPTER 28	Cause and effect	402

PART 5	SHARING THE RESULTS	411
CHAPTER 29	Reporting research	412
APPENDIXES	431	
	<i>Appendix I. Descriptive statistics (linked to Chapter 9)</i>	432
	<i>Appendix II. Sampling and confidence intervals for proportions (linked to Chapter 11)</i>	441
	<i>Appendix III. Comparing a sample with a population (linked to Chapter 12 and Chapter 11)</i>	446
	<i>Appendix IV. The power of a one-group z-test and finding sample sizes via confidence intervals (linked to Chapter 13)</i>	453
	<i>Appendix V. Data transformation and goodness-of-fit tests (linked to Chapter 14)</i>	458
	<i>Appendix VI. Seeking differences between two levels of an independent variable (linked to Chapter 15)</i>	464
	<i>Appendix VII. Seeking differences between more than two levels of an independent variable (linked to Chapter 16)</i>	489
	<i>Appendix VIII. Analysis of designs with more than one independent variable (linked to Chapter 17)</i>	514
	<i>Appendix IX. Subsequent analysis after ANOVA or χ^2 (linked to Chapter 18)</i>	528
	<i>Appendix X. Correlation and reliability (linked to Chapter 19)</i>	543
	<i>Appendix XI. Linear regression (linked to Chapter 20)</i>	571
	<i>Appendix XII. Logistic regression (linked to Chapter 21)</i>	589
	<i>Appendix XIII. ANCOVA (linked to Chapter 22)</i>	604
	<i>Appendix XIV. Evaluation of measures: item and discriminative analysis, and accuracy of tests (linked to Chapter 6)</i>	609
	<i>Appendix XV. Unbalanced designs (linked to Chapter 23)</i>	612
	<i>Appendix XVI. Exploratory factor analysis (linked to Chapter 24)</i>	615
	<i>Appendix XVII. Meta-analysis (linked to Chapter 26)</i>	622
	<i>Appendix XVIII. Bayesian statistics (linked to Chapter 27)</i>	638
	<i>Appendix XIX. Probability tables</i>	644
	<i>Appendix XX. Power tables</i>	686
	<i>Appendix XXI. Miscellaneous tables</i>	742
	<i>References</i>	752
	<i>Glossary of symbols</i>	763
	<i>Author index</i>	765
	<i>Subject index</i>	769