Contents

Acknowledgements

Chapter One Introduction **1**
1 How to use this book 2
2 Conducting psychological research 4
3 Data analysis 9
4 Working with SPSS 12
5 Starting SPSS 14
6 How to exit from SPSS 18

Chapter Two Data entry in SPSS **21**
1 The Data Editor window 22
2 Defining a variable in SPSS Versions 8 and 9 24
3 Defining a variable in SPSS Version 10 33
4 Entering data 45
5 Saving a data file 48
6 Opening a data file 51
7 Data entry exercises 53
8 Answers to data entry exercises 57
9 Summary descriptive statistics and the Viewer window 59

Chapter Three Tests of difference for two sample designs **71**
1 An introduction to the *t*-tests 72
2 The independent *t*-test 73
3 The paired *t*-test 77
4 An introduction to the nonparametric equivalents of the *t*-test 81
5 The Mann–Whitney test 82
6 The Wilcoxon test 85

Chapter Four Tests of association **89**
1 The chi-square test 90
2 Tests of correlation 102

Chapter Five Data handling **115**
1 An introduction to data handling 116
2 Sorting a file 117
3 Splitting a file 119
4 Selecting cases 121
5 Recoding values 125
6 Computing new variables 130
7 Counting values 133

8 Ranking cases 136
9 Other useful functions 139

Chapter Six Analysis of Variance **141**
1 An introduction to Analysis of Variance (ANOVA) 142
2 One-way between-subjects ANOVA 155
3 Two-way between-subjects ANOVA 162
4 One-way within-subjects ANOVA 167
5 Two-way within-subjects ANOVA 174
6 Mixed ANOVA 184
7 Some additional points 190
8 Planned and unplanned comparisons 193
9 Nonparametric equivalents to ANOVA: Kruskal–Wallis and Friedman 200

Chapter Seven Multiple regression **205**
1 An introduction to multiple regression 206
2 Performing a multiple regression on SPSS 212

Chapter Eight Beyond the basics **221**
1 The syntax window 222
2 Option settings in SPSS 230
3 Getting help in SPSS 232
4 Printing from SPSS 235
5 Incorporating SPSS output into other documents 238
6 Graphing tips 240
7 Interactive charts 246

Glossary/Index 247

References 265

Appendix: Data files 267