

CONTENTS

Series Editor's Introduction	v
1. Introduction	1
2. Location Tests for Single and Paired Samples (Sign Test and Wilcoxon Signed Rank Test)	4
Example 2.1	4
Solution to Example 2.1: The Sign Test	6
Alternative Solution to Example 2.1: Wilcoxon Signed Rank Test	14
Example 2.2	18
Solution to Example 2.2: Wilcoxon Signed Rank Test	18
Example 2.3	20
Solution to Example 2.3: The Sign Test	22
3. Confidence Interval Estimates of the Median and Median Difference for Single and Paired Samples	25
Example 3.1	27
Example 3.2	29
4. Location Tests and Confidence Intervals for Two Independent Samples (Mann-Whitney-Wilcoxon Test)	30
Example 4.1	31
Solution to Example 4.1: Mann-Whitney-Wilcoxon Test	31
Example 4.2	35
Solution to Example 4.2: Mann-Whitney-Wilcoxon Test	36
Example 4.3	40
Solution to Example 4.3: Mann-Whitney-Wilcoxon Test	41

5. Location Tests and Multiple Comparisons for $k \geq 3$ Mutually Independent Samples (Kruskal-Wallis Test)	42
Example 5.1	43
Solution to Example 5.1: Kruskal-Wallis Test	44
Example 5.2	49
Solution to Example 5.2: Kruskal-Wallis Test	50
6. Location Tests and Multiple Comparisons for $k \geq 3$ Related Samples (Friedman's Test)	54
Example 6.1	56
Solution to Example 6.1: Friedman's Test	57
Example 6.2	59
Solution to Example 6.2: Friedman's Test	60
7. Summary	63
Appendix A: Tables	64
Table A. Normal Distribution	64
Table B. Binomial Distribution With $p = .5$	66
Table C. Wilcoxon Signed Rank Distribution	68
Table D. Mann-Whitney-Wilcoxon Distribution	71
Table E. Chi-Square Distribution	79
Table F. Kruskal-Wallis Distribution	81
Table G. Friedman's S Distribution	82
Table H. Values of Z_c for Multiple Comparisons	84
Appendix B: Further Reading	85
References	86
About the Author	87