

CONTENTS

<i>Preface</i>	xi
<i>Acknowledgments</i>	xiii
1 INTRODUCTION	1
2 THE <i>t</i>-TEST	4
Summary	14
Problems	15
3 TWO-SAMPLE <i>t</i>-TEST	21
Summary	31
Problems	32
4 THE <i>k</i>-SAMPLE COMPARISON OF MEANS (ONE-WAY ANALYSIS OF VARIANCE)	36
Summary and Generalization	42
Problems	43
5 THE BALANCED TWO-WAY FACTORIAL DESIGN WITHOUT INTERACTION	49
Summary	61
Problems	62

6	<i>ESTIMATION AND MORE ON FACTORIAL DESIGNS</i>	67
	Summary	80
	Problems	81
7	<i>THE LATIN SQUARE</i>	88
	Problems	95
8	<i>CONFIDENCE SETS, SIMULTANEOUS CONFIDENCE INTERVALS, AND MULTIPLE COMPARISONS</i>	98
	One-Dimensional Case	98
	Multidimensional Case	99
	Simultaneous Confidence Intervals Using Bonferroni's Inequality	101
	The <i>S</i> -Method of Simultaneous Confidence Intervals	103
	<i>T</i> -Type Simultaneous Confidence Intervals	106
	Summary	112
	Problems	114
9	<i>ORTHOGONAL AND NONORTHOGONAL DESIGNS, EFFICIENCY</i>	117
	Summary	123
	Problems	124
10	<i>MULTIPLE REGRESSION ANALYSIS AND RELATED MATTERS</i>	125
	Regression Analysis	125
	Multiple Regression	134
	Partial Correlation	143
	Problems	144

APPENDIXES

1	<i>REVIEW OF LINEAR ALGEBRA AND VECTOR SPACE THEORY</i>	147
2	<i>TABLES OF STATISTICAL DISTRIBUTIONS</i>	159
Table 1	Critical Values for the <i>t</i> - and Normal Distributions	160
Table 2	Critical Values for the <i>F</i> -Distribution	162
Table 3	Critical Values for the Studentized Range from a Normal Distribution	168
<i>Index</i>		171