

Contents

Part 1 Statistical Data and Descriptive Measures

- 1 The Nature of Statistics 1
- 2 Analysis of Ungrouped Data 21
- 3 Analysis of Frequency Distributions 53
- 4 The Computer and Statistical Analysis 87

Part 2 Probability and Probability Distributions

- 5 The Nature of Randomness and Probability 113
- 6 Discrete Probability Distributions 153
- 7 Continuous Probability Distributions 191

Part 3 Sampling

- 8 Sample Distributions and Estimation 231
- 9 Sample Design 295

Part 4 Inference

- 10 Tests of Significance for
Sample Means and Proportions 328
- 11 Some Nonparametric Methods 368

12	Statistical Decision Theory	405
13	The F Distribution	447
14	Experimental Design	473

Part 5 Regression and Correlation

15	Regression and Correlation: Linear Bivariate Analysis	511
16	Regression and Correlation: Curvilinear Analysis	565
17	Regression and Correlation: Multivariate Analysis	604

Part 6 Time Series and Index Numbers

18	Time Series: Trend Analysis	641
19	Time Series: Periodic Analysis and Forecasting . . .	674
20	Index Numbers of Business Change	698

Appendix Tables

A	Squares, Square Roots, and Reciprocals	735
B	Logarithms of Numbers, 1,000 to 9,999	744
C	Binomial Probability Distribution	762
D	Cumulative Binomial Probability Distribution	795
E	Values of $e^{-\lambda}$	825
F	Poisson Probability Distribution	826
G	Cumulative Poisson Probability Distribution	832
H	Areas and Ordinates of the Normal Curve	838
I	Areas in One Tail of the Normal Curve	843
J	Student's t Distribution	844

K Values of Chi-Square	845
L <i>F</i> Distribution	847
M Values of the Correlation Coefficient to Different Levels of Significance	851
N Random Sampling Numbers	852
O Unit Normal Loss Function	860
Answers to Odd-Numbered Problems	862
Index	878