

1. Record Nr.	UNINA9911019483903321
Autore	Dowdy S. M
Titolo	Statistics for research / / Shirley Dowdy, Stanley Weardon [i.e. Wearden], Daniel Chilko
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2004
ISBN	9786610556618 9781280556616 1280556617 9780471477426 0471477427 9780471477433 0471477435
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (646 p.)
Collana	Wiley series in probability and statistics
Altri autori (Persone)	ChilkoDaniel M WeardenStanley <1926-2012.>
Disciplina	519.5
Soggetti	Mathematical statistics Statistics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Statistics for Research; CONTENTS; Preface to the Third Edition; Preface to the Second Edition; Preface to the First Edition; 1 The Role of Statistics; 1.1 The Basic Statistical Procedure; 1.2 The Scientific Method; 1.3 Experimental Data and Survey Data; 1.4 Computer Usage; Review Exercises; Selected Readings; 2 Populations, Samples, and Probability Distributions; 2.1 Populations and Samples; 2.2 Random Sampling; 2.3 Levels of Measurement; 2.4 Random Variables and Probability Distributions; 2.5 Expected Value and Variance of a Probability Distribution; Review Exercises; Selected Readings 3 Binomial Distributions3.1 The Nature of Binomial Distributions; 3.2 Testing Hypotheses; 3.3 Estimation; 3.4 Nonparametric Statistics: Median Test; Review Exercises; Selected Readings; 4 Poisson Distributions; 4.1 The Nature of Poisson Distributions; 4.2 Testing Hypotheses; 4.3 Estimation; 4.4 Poisson Distributions and Binomial Distributions; Review Exercises; Selected Readings; 5 Chi-Square

Distributions; 5.1 The Nature of Chi-Square Distributions; 5.2 Goodness-of-Fit Tests; 5.3 Contingency Table Analysis; 5.4 Relative Risks and Odds Ratios
 5.5 Nonparametric Statistics: Median Test for Several Samples Review Exercises; Selected Readings; 6 Sampling Distribution of Averages; 6.1 Population Mean and Sample Average; 6.2 Population Variance and Sample Variance; 6.3 The Mean and Variance of the Sampling Distribution of Averages; 6.4 Sampling Without Replacement; Review Exercises; 7 Normal Distributions; 7.1 The Standard Normal Distribution; 7.2 Inference From a Single Observation; 7.3 The Central Limit Theorem; 7.4 Inferences About a Population Mean and Variance; 7.5 Using a Normal Distribution to Approximate Other Distributions
 7.6 Nonparametric Statistics: A Test Based on Ranks Review Exercises; Selected Readings; 8 Student's t Distribution; 8.1 The Nature of t Distributions; 8.2 Inference About a Single Mean; 8.3 Inference About Two Means; 8.4 Inference About Two Variances; 8.5 Nonparametric Statistics: Matched-Pair and Two-Sample Rank Tests; Review Exercises; Selected Readings; 9 Distributions of Two Variables; 9.1 Simple Linear Regression; 9.2 Model Testing; 9.3 Inferences Related to Regression; 9.4 Correlation; 9.5 Nonparametric Statistics: Rank Correlation; 9.6 Computer Usage
 9.7 Estimating Only One Linear Trend Parameter Review Exercises; Selected Readings; 10 Techniques for One-way Analysis of Variance; 10.1 The Additive Model; 10.2 One-Way Analysis-of-Variance Procedure; 10.3 Multiple-Comparison Procedures; 10.4 One-Degree-of-Freedom Comparisons; 10.5 Estimation; 10.6 Bonferroni Procedures; 10.7 Nonparametric Statistics: Kruskal-Wallis ANOVA for Ranks; Review Exercises; Selected Readings; 11 The Analysis-of-Variance Model; 11.1 Random Effects and Fixed Effects; 11.2 Testing the Assumptions for ANOVA; 11.3 Transformations; Review Exercises; Selected Readings
 12 Other Analysis-of-Variance Designs

Sommario/riassunto

Praise for the Second Edition ""Statistics for Research has other fine qualities besides superior organization. The examples and the statistical methods are laid out with unusual clarity by the simple device of using special formats for each. The book was written with great care and is extremely user-friendly.""-The UMAP Journal Although the goals and procedures of statistical research have changed little since the Second Edition of Statistics for Research was published, the almost universal availability of personal computers and statistical computing application packages have made it poss