1. Record Nr. UNINA9910709982603321

Autore	Thompson David G (David Grosh), <1888-1943, >
Titolo	The Mohave Desert region, California : a geographic, geologic, and hydrologic reconnaissance / / by David G. Thompson
Pubbl/distr/stampa	Washington, D.C. : , : U.S. Department of the Interior, U.S. Geological Survey, , 1929 Washington, D.C. : , : Government Printing Office
Descrizione fisica	1 online resource (xi, 759 pages) : illustrations, maps
Collana	Water-supply paper ; ; no 578
Soggetti	Geology - Mojave Desert Hydrology - Mojave Desert Water-supply - Mojave Desert Mojave Desert
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.

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Autore	Shanmugam Ramalingam
Titolo	Statistics for scientists and engineers / / Ramalingam Shanmugam, Rajan Chattamvelli
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, Incorporated, , 2015
ISBN	1-118-47802-9 1-119-04718-8
Descrizione fisica	1 online resource (1063 p.)
Disciplina	519.5
Soggetti	Mathematical 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	Cover; Table of Contents; Title Page; Copyright; Preface; Audience; Purpose; Approach; Main Features; Mathematics Level; Coverage; About the Companion Website; Chapter 1: Descriptive Statistics; 1.1 Introduction; 1.2 Statistics as A Scientific Discipline; 1.3 The NOIR Scale; 1.4 Population Versus Sample; 1.5 Combination Notation; 1.6 Summation Notation; 1.7 Product Notation; 1.8 Rising and Falling Factorials; 1.9 Moments and Cumulants; 1.10 Data Transformations; 1.11 Data Discretization; 1.12 Categorization of Data Discretization; 1.13 Testing for Normality; 1.14 Summary; Exercises Chapter 2: Measures of Location2.1 Meaning of Location Measure; 2.2 Measures of Central Tendency; 2.3 Arithmetic Mean; 2.4 Median; 2.5 Quartiles and Percentiles; 2.6 Mode; 2.7 Geometric Mean; 2.8 Harmonic Mean; 2.9 Which Measure to Use?; 2.10 Summary; Exercises; Chapter 3: Measures of Spread; 3.1 Need For a Spread Measure; 3.2 Range; 3.3 Inter-Quartile Range (IQR); 3.4 The Concept of Degrees of Freedom; 3.5 Averaged Absolute Deviation (AAD); 3.6 Variance and Standard Deviation; 3.7 Coefficient of Variation; 3.8 Gini Coefficient; 3.9 Summary; Exercises; Chapter 4: Skewness and Kurtosis 4.1 Meaning of Skewness4.2 Categorization of Skewness Measures; 4.3 Measures of Skewness; 4.4 Concept of Kurtosis; 4.5 Measures of Kurtosis; 4.6 Summary; Exercises; Chapter 5: Probability; 5.1 Introduction; 5.2 Probability; 5.3 Different Ways to Express Probability; 5.4 Sample Space; 5.5 Mathematical Background; 5.6 Events; 5.7 Event

Algebra; 5.8 Basic Counting Principles; 5.9 Permutations and Combinations; 5.10 Principle of Inclusion and Exclusion (PIE); 5.11 Recurrence Relations; 5.12 Urn Models; 5.13 Partitions; 5.14 Axiomatic Approach; 5.15 The Classical Approach; 5.16 Frequency Approach
5.17 Bayes Theorem5.18 Summary; Exercises; Chapter 6: Discrete Distributions; 6.1 Discrete Random Variables; 6.2 Binomial Theorem; 6.3 Mean Deviation of Discrete Distributions; 6.4 Bernoulli Distribution; 6.5 Binomial Distribution; 6.6 Discrete Uniform Distribution; 6.7 Geometric Distribution; 6.8 Negative Binomial Distribution; 6.9 Poisson Distribution; 6.10 Hypergeometric Distribution; 6.11 Negative Hypergeometric Distribution; 6.12 Beta Binomial Distribution; 6.13 Logarithmic Series Distribution; 6.14 Multinomial Distribution; 6.15 Summary; Exercises; Chapter 7: Continuous Distributions
7.1 Introduction7.2 Mean Deviation of Continuous Distributions; 7.3 Continuous Uniform Distribution; 7.4 Exponential Distribution; 7.5 Beta Distribution; 7.6 The Incomplete Beta Function; 7.7 General Beta Distribution; 7.8 Arc-Sine Distribution; 7.9 Gamma Distribution; 7.10 Cosine Distribution; 7.11 The Normal Distribution; 7.12 Cauchy Distribution; 7.13 Inverse Gaussian Distribution; 7.14 Lognormal Distribution; 7.15 Pareto Distribution; 7.16 Double Exponential Distribution; 7.17 Central x2 Distribution; 7.18 Student's T Distribution; 7.19 Snedecor's F Distribution
7.20 Fisher's Z Distribution

Sommario/riassunto

This book provides the theoretical framework needed to build, analyze and interpret various statistical models. It helps readers choose the correct model, distinguish among various choices that best captures the data, or solve the problem at hand. This is an introductory textbook on probability and statistics. The authors explain theoretical concepts in a step-by-step manner and provide practical examples. The introductory chapter in this book presents the basic concepts. Next, the authors discuss the measures of location, popular measures of spread, and measures of skewness and kurtosis. P