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**STATISTICS THE CONCEPTUAL  
APPROACH**

# Statistics The Conceptual Approach

**Debbie L. Hahs-Vaughn, Richard Lomax**



## **Statistics The Conceptual Approach:**

Statistics Gudmund R. Iversen, Mary Gergen, 1997-04-30 An imaginative introduction to statistics reorienting the course towards an understanding of statistical thinking and its meaning and use in daily life and work Gudmund Iversen and Mary Gergen bring their years of experience and insight into teaching the subject incorporating such innovations and insights as a sustained emphasis on the process of statistical analysis and what statistics can and cannot do as well as careful exposition of the ideas of developing statistical and graphical literacy In the spirit of contemporary pedagogy and by using technology the authors break down the traditional barriers of statistical formulas and lengthy computations encountered by students without strong quantitative skills Further formulas are grouped at the end of each chapter along with related problems and with only algebra as a prerequisite the book is ideal for students in the liberal arts and the behavioural and social sciences

*Introductory Statistics* William B. Ware, John M. Ferron, Barbara M. Miller, 2013-02-15 This comprehensive and uniquely organized text is aimed at undergraduate and graduate level statistics courses in education psychology and other social sciences A conceptual approach built around common issues and problems rather than statistical techniques allows students to understand the conceptual nature of statistical procedures and to focus more on cases and examples of analysis Wherever possible presentations contain explanations of the underlying reasons behind a technique Importantly this is one of the first statistics texts in the social sciences using R as the principal statistical package Key features include the following  
Conceptual Focus The focus throughout is more on conceptual understanding and attainment of statistical literacy and thinking than on learning a set of tools and procedures Problems and Cases Chapters and sections open with examples of situations related to the forthcoming issues and major sections ends with a case study For example after the section on describing relationships between variables there is a worked case that demonstrates the analyses presents computer output and leads the student through an interpretation of that output Continuity of Examples A master data set containing nearly all of the data used in the book s examples is introduced at the beginning of the text This ensures continuity in the examples used across the text Companion Website A companion website contains instructions on how to use R SAS and SPSS to solve the end of chapter exercises and offers additional exercises Field Tested The manuscript has been field tested for three years at two leading institutions  
**Statistics** M., Gergen Iversen, 1999  
**Statistics** Sidney J. Armore, 1975  
*Making Sense of Statistics* Keeok Park, 2013-05-08 Dedicated to all the wise people in the world who suddenly become clueless when they encounter numbers this book takes a kinder and gentler approach to the study of statistics Instead of using complex formulas it uses simple words and figures to explain the essential concepts of a variety of statistical methods Although written primarily for organizational management and public administration majors it can be read by the mathematically challenged students in any social science discipline  
*A Conceptual Approach to Statistics* Marnie Francisco, Pearson Custom Publishing, Rick Martinez, 2000-03-01  
**STA 381 - Engineering Statistics: a Conceptual Approach** Pittard, 2019-08-19

STA 381 - Engineering Statistics Pittard Rayens,2014-12-29      Instructor's Manual for Statistics Sidney J. Armore,1975  
*Statistics Without Complex Formulas* Keeok Park,2001      **Sta 381** Rayens,2021-08-04      *Straightforward Statistics*  
Glenn Geher,Sara Hall,2014-04-01 *Straightforward Statistics* Understanding the Tools of Research is a clear and direct introduction to statistics for the social behavioral and life sciences Based on the author s extensive experience teaching undergraduate statistics this book provides a narrative presentation of the core principles that provide the foundation for modern day statistics With step by step guidance on the nuts and bolts of computing these statistics the book includes detailed tutorials how to use state of the art software SPSS to compute the basic statistics employed in modern academic and applied research Across 13 succinct chapters this text presents statistics using a conceptual approach along with information on the relevance of the different tools in different contexts and summaries of current research examples Students should find this book easy useful and engaging in its presentation while instructors should find it detailed comprehensive accessible and helpful in complementing a basic course in statistics      **Elementary Statistics** Bayard Baylis,Carlos A. Pereira,Barbara Rose,1998-05-01      **Basic Statistics** Ebert L. Miller,1986      *An Introduction to Statistical Concepts* Richard G Lomax,Debbie L. Hahs-Vaughn,2013-06-19 This comprehensive flexible text is used in both one and two semester courses to review introductory through intermediate statistics Instructors select the topics that are most appropriate for their course Its conceptual approach helps students more easily understand the concepts and interpret SPSS and research results Key concepts are simply stated and occasionally reintroduced and related to one another for reinforcement Numerous examples demonstrate their relevance This edition features more explanation to increase understanding of the concepts Only crucial equations are included In addition to updating throughout the new edition features New co author Debbie L Hahs Vaughn the 2007 recipient of the University of Central Florida s College of Education Excellence in Graduate Teaching Award A new chapter on logistic regression models for today s more complex methodologies More on computing confidence intervals and conducting power analyses using G Power Many more SPSS screenshots to assist with understanding how to navigate SPSS and annotated SPSS output to assist in the interpretation of results Extended sections on how to write up statistical results in APA format New learning tools including chapter opening vignettes outlines and a list of key concepts many more examples tables and figures boxes and chapter summaries More tables of assumptions and the effects of their violation including how to test them in SPSS 33% new conceptual computational and all new interpretative problems A website that features PowerPoint slides answers to the even numbered problems and test items for instructors and for students the chapter outlines key concepts and datasets that can be used in SPSS and other packages and more Each chapter begins with an outline a list of key concepts and a vignette related to those concepts Realistic examples from education and the behavioral sciences illustrate those concepts Each example examines the procedures and assumptions and provides instructions for how to run SPSS including annotated output and tips to develop an APA style write up Useful tables of assumptions and the

effects of their violation are included along with how to test assumptions in SPSS Stop and Think boxes provide helpful tips for better understanding the concepts Each chapter includes computational conceptual and interpretive problems The data sets used in the examples and problems are provided on the web Answers to the odd numbered problems are given in the book The first five chapters review descriptive statistics including ways of representing data graphically statistical measures the normal distribution and probability and sampling The remainder of the text covers inferential statistics involving means proportions variances and correlations basic and advanced analysis of variance and regression models Topics not dealt with in other texts such as robust methods multiple comparison and nonparametric procedures and advanced ANOVA and multiple and logistic regression models are also reviewed Intended for one or two semester courses in statistics taught in education and or the behavioral sciences at the graduate and or advanced undergraduate level knowledge of statistics is not a prerequisite A rudimentary knowledge of algebra is required

*Statistics, a Conceptual Approach* Kenneth Laurence Weldon, 1986 Introduction to statistics Study design I local keys to statistical thinking Study design II principles of experimentation Descriptive methods for one variable Descriptive methods for two variables Descriptive methods for time series Sampling and probability Estimation Testing hypotheses with data

**A Spiral Approach to Financial Mathematics** Nathan Tintle, Nathan Schelhaas, Todd Swanson, 2018-06-15 A Spiral Approach to Financial Mathematics lays a foundation of intuitive analysis of financial concepts early in the course followed by a more detailed and nuanced treatment in later chapters It introduces major financial concepts through real situations integrates active learning student focused explorations and examples with Excel spreadsheets and straightforward financial calculations It is organized so sections can be read independently or through in class guided discovery activities and or interactive lectures Focusing on conceptual understanding to maximize comprehension and retention using modern financial analysis tools and utilizing active learning the book offers a modern approach that eliminates tedious and time consuming calculations initially without underestimating the ability of readers Covers FM Exam topics Includes Excel spreadsheets that enable the execution of financial transactions Presents a spiral active learning pedagogical strategy that accentuates key concepts and reinforces intuitive learning

**An Introduction to Statistical Concepts** Debbie L. Hahs-Vaughn, Richard Lomax, 2020-02-03 The new edition of An Introduction to Statistical Concepts is designed to help students really understand statistical concepts the situations in which they can be used and how to apply them to data Hahs Vaughn and Lomax discuss the most popular along with many of the lesser known procedures and models whilst also exploring nonparametric procedures used when standard assumptions are violated They provide in depth coverage of testing assumptions and highlight several online tools for computing statistics e g effect sizes and their confidence intervals and power This comprehensive flexible and accessible text includes a new chapter on mediation and moderation expanded coverage of effect sizes and discussions of sensitivity specificity false positive and false negative along with using the receiver operator characteristic ROC curve In addition to instructions and screen shots

for using SPSS new to this edition is annotated script for using R This book noted for its crystal clear explanations and its inclusion of only the most crucial equations is an invaluable resource for students undertaking a course in statistics in any number of social science and behavioral disciplines from education business communication exercise science psychology sociology and more

**STATBOOK** E. Cracchiolo, 1988 *Statistical Concepts - A First Course* Debbie L. Hahs-Vaughn, 2020-01-20

Statistical Concepts A First Course presents the first 10 chapters from An Introduction to Statistical Concepts Fourth Edition Designed for first and lower level statistics courses this book communicates a conceptual intuitive understanding of statistics that does not assume extensive or recent training in mathematics and only requires a rudimentary knowledge of algebra Covering the most basic statistical concepts this book is designed to help readers really understand statistical concepts in what situations they can be applied and how to apply them to data Specifically the text covers basic descriptive statistics including ways of representing data graphically statistical measures that describe a set of data the normal distribution and other types of standard scores and an introduction to probability and sampling The remainder of the text covers various inferential tests including those involving tests of means e g t tests proportions variances and correlations Providing accessible and comprehensive coverage of topics suitable for an undergraduate or graduate course in statistics this book is an invaluable resource for students undertaking an introductory course in statistics in any number of social science and behavioral science disciplines

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