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an overview of descriptive and inferential statistics without formulas and computations clear and to the point narrative makes this short book perfect for all courses in which statistics are discussed helps statistics students who are struggling with the concepts shows them the meanings of the statistics they are computing this book is easy to digest because it is divided into short sections with review questions at the end of each section running sidebars draw students attention to important concepts

making sense of statistics is the ideal introduction to the concepts of descriptive and inferential statistics for students undertaking their first research project it presents each statistical concept in a series of short steps then uses worked examples and exercises to enable students to apply their own learning it focuses on presenting the why as well as the how of statistical concepts rather than computations and formulae so is suitable for students from all disciplines regardless of mathematical background only statistical techniques that are almost universally included in introductory statistics courses and widely reported in

journals have been included once students understand and feel comfortable with the statistics that meet these criteria they should find it easy to master additional statistical concepts new to the seventh edition retaining the key features and organization that have made this book an indispensable text for teaching and learning the basic concepts of statistical analysis this new edition features discussion of the use of observation in quantitative and qualitative research the inclusion of introductions to the book and each part section objectives listed at the beginning of each section to guide the reader new material on key topics such as z scores probability central limit theorem standard deviation and simple and multiple regression expanded discussion on t test with separate sections for independent and dependent samples t tests as well as one sample t test progressive analysis of bivariate vs multivariate statistics starts with the basic concepts and moves to more complex analysis as the student progresses updated and extended pedagogical material such as chapter objectives exercises and worked examples to test and enhance student s understanding of the material presented in the chapter bolded key terms with definitions and glossary for quick referral expanded appendices include a brief reference list of some common computational formulas and examples a glossary of key terms has been added at the end of the book with references to sections in parenthesis new online instructor resources for classroom use consisting of test bank questions and powerpoint slides plus material on basic math review

making sense of statistics eighth edition is the ideal introduction to the concepts of descriptive and inferential statistics for students undertaking their first research project it presents each statistical concept in a series of short steps then uses worked examples and exercises to enable students to apply their own learning it focuses on presenting the why as well as the how of statistical concepts rather than computations and formulas as such it is suitable for students from all disciplines regardless of mathematical background only statistical techniques that are almost universally included in introductory statistics courses and widely reported in journals have been included this conceptual book is useful for all study levels from undergraduate to doctoral level across disciplines once students understand and feel comfortable with the statistics presented in this book they should find it easy to master additional statistical concepts new to the eighth edition reorganization of chapters to allow better progress in conceptual understanding additional discussions on program evaluation displays of outcomes and examples chapter objectives at the beginning of each chapter are listed with clear learning objectives for the reader expanded appendices include a reference to common computational formulas and examples a glossary of key terms has been updated to function as a useful vocabulary list for use in a first course in statistics updated online resources including a basic math review and answers and a test bank of questions

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 gerger 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

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

statistical concepts consists of the last 9 chapters of an introduction to statistical concepts 3rd ed designed for the second course in statistics it is one of the few texts that focuses just on intermediate statistics the book highlights how statistics work and what they mean to better prepare students to analyze their own data and interpret spss and research results as such it offers more coverage of non parametric procedures used when standard assumptions are violated since these methods are more frequently encountered when working with real data determining appropriate sample sizes is emphasized throughout only crucial equations are included 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 much more on computing confidence intervals and conducting power analyses using g power all new spss version 19 screenshots to help navigate through the program and annotated output to assist in the interpretation of results sections on how to write up statistical results in apa format and new templates for writing research questions new learning tools including chapter opening vignettes outlines a list of key concepts stop and think boxes and many more examples tables and figures 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 with power points answers to the even numbered problems detailed solutions to the odd numbered problems and test items for instructors and for students the chapter outlines key concepts and datasets each chapter begins with an outline a list of key concepts and a research vignette related to the concepts realistic examples from education and the behavioral sciences illustrate those concepts each example examines the procedures and assumptions and provides tips for how to run spss and develop an apa style write up tables of assumptions and the effects of their violation are included along with how to test assumptions in spss each chapter includes computational conceptual and interpretive problems answers to the odd numbered problems are provided the spss data sets that correspond to the book s examples and problems are available on the web the book covers basic and advanced analysis of variance models and topics not dealt with in other texts such as robust methods multiple comparison and non parametric procedures and multiple and logistic regression models intended for courses in intermediate statistics and or statistics ii taught in education and or the behavioral sciences predominantly at the master s or doctoral level knowledge of introductory statistics is assumed

for well over two decades the oecd has developed and published a broad range of comparative indicators published yearly in the flagship publication education at a glance

designed for students majoring in the life health and natural sciences statistics concepts and applications for science is a text and workbook package that introduces statistics with an important emphasis on the real world applications of statistical reasoning and procedures through intensive exposure to the core concepts of statistics in the context of science students acquire the skills and understanding they need to formulate valid research designs implement statistical analysis interpret data and explain their results

statistical concepts a first course presents the first ten chapters from an introduction to statistical concepts 4th edition

for liberal arts students statistics may seem like a foreign language by emphasizing concepts and statistical thinking over punching numbers into a calculator and by focusing on real sources from campaign claims to scientific studies statistics concepts and controversies helps students understand just how much statistical analysis has to say about their lives and the world around us now this classic bestseller the first to feature on david moore s data analysis approach returns in a thoroughly contemporary new edition better equipped than ever to provide students with a solid understanding of statistical concepts an eye for analyzing published data and an appreciation of statistic s relevance to everyday life publisher s description

increase competency while building confidence in reading statistics and discussing test scores this book focuses on statistical literacy for counselors and psychotherapists you will find a review of basic statistical concepts explained with examples from counseling practice and research applied statistics is for all human service professionals and students involved in counseling interviewing and assessment key features how statistics function in counseling research and practice easy to read explanations of basic stats like measurement averages correlations simple descriptions of statistical tests like t tests anova chi square important review of test score reliability and validity includes an extensive glossary practice with answers links to online resources what reviewers say about applied statistics even though i completed multiple graduate level statistics courses i benefitted from the simple and straight forward content of this text practice tests at the end of chapters helps assess learning and application this is a great refresher resource for counselors and beginning graduate students christine arnzen ph d lpc associate professor evangel university coordinator graduate counseling programs

statistics can be seen by many as a difficult or intimidating subject

bridging an understanding of statistics and spss the text is written in a user friendly language and illustrates concepts that would otherwise be confusing to beginning students and those with limited computer skills justice mbizo university of west florida this unique text helps students develop a conceptual understanding of a variety of statistical tests by linking the ideas learned in a statistics class from a traditional statistics textbook with the computational

steps and output from spss each chapter begins with a student friendly explanation of the concept behind each statistical test and how the test relates to that concept the authors then walk through the steps to compute the test in spss and the output clearly linking how the spss procedure and output connect back to the conceptual underpinnings of the test by drawing clear connections between the theoretical and computational aspects of statistics this engaging text aids students understanding of theoretical concepts by teaching them in a practical context please note unfortunately the student resource website for this title is no longer active or available

statistics is confusing even for smart technically competent people and many students and professionals find that existing books and web resources don t give them an intuitive understanding of confusing statistical concepts that is why this book is needed some of the unique qualities of this book are easy to understand uses unique graphics that teach such as concept flow diagrams compare and contrast tables and even cartoons to enhance rememberability easy to use alphabetically arranged like a mini encyclopedia for easy lookup on the job while studying or during an open book exam wider scope covers statistics i and statistics ii and six sigma black belt adding such topics as control charts and statistical process control process capability analysis and design of experiments as a result this book will be useful for business professionals and industrial engineers in addition to students and professionals in the social and physical sciences in addition each of the 60 concepts is covered in one or more articles the 75 articles in the book are usually 5 7 pages long ensuring that things are presented in bite sized chunks the first page of each article typically lists five keys to understanding which tell the reader everything they need to know on one page this book also contains an article on which statistical tool to use to solve some common problems additional which to use when articles on control charts distributions and charts graphs plots as well as articles explaining how different concepts work together e g how alpha p critical value and test statistic interrelate andrew a jawlik received his b s in mathematics and his m s in mathematics and computer science from the university of michigan he held jobs with ibm in marketing sales finance and information technology as well as a position as process executive in these jobs he learned how to communicate difficult technical concepts in easy to understand terms he completed lean six sigma black belt coursework at the iassc accredited pyzdek institute in order to understand the confusing statistics involved he wrote explanations in his own words and graphics using this material he passed the certification exam with a perfect score those statistical explanations then became the starting point for this book

the concept of uncertainty the concept of directed divergence the concept of inaccuracy some basic statistical concepts and their characterizations some other measures and inequalities

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