

Business Statistics Mathematics By Jk Thukral

The author, the founder of the Greek Statistical Institute, has based this book on the two volumes of his Greek edition which has been used by over ten thousand students during the past fifteen years. It can serve as a companion text for an introductory or intermediate level probability course. Those will benefit most who have a good grasp of calculus, yet, many others, with less formal mathematical background can also benefit from the large variety of solved problems ranging from classical combinatorial problems to limit theorems and the law of iterated logarithms. It contains 329 problems with solutions as well as an addendum of over 160 exercises and certain complements of theory and problems.

This book meets the specific and complete requirements of students pursuing MBA/PGDBM, B.Com., M.Com., MA(Eco), CA, ICWA, BBA, BIS/BIT/BCA, etc., courses, who need to understand the basic concepts of business statistics and apply results directly to real-life business problems. The book also suits the requirements of students who need practical knowledge of the subject, as well as for those preparing for competitive examinations.

Taken literally, the title "All of Statistics" is an exaggeration. But in spirit, the title is apt, as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics. This book is for people who want to learn probability and statistics quickly. It is suitable for graduate or advanced undergraduate students in computer science, mathematics, statistics, and related disciplines. The book includes modern topics like non-parametric curve estimation, bootstrapping, and classification, topics that are usually relegated to follow-up courses. The reader is presumed to know calculus and a little linear algebra. No previous knowledge of probability and statistics is required. Statistics, data mining, and machine learning are all concerned with collecting and analysing data.

This book was first published in 2004. Many observed phenomena, from the changing health of a patient to values on the stock market, are characterised by quantities that vary over time: stochastic processes are designed to study them. This book introduces practical methods of applying stochastic processes to an audience knowledgeable only in basic statistics. It covers almost all aspects of the subject and presents the theory in an easily accessible form that is highlighted by application to many examples. These examples arise from dozens of areas, from sociology through medicine to engineering. Complementing these are exercise sets making the book suited for introductory courses in stochastic processes. Software (available from www.cambridge.org) is provided for the freely available R system for the reader to apply to all the models presented.

The fifth edition of the book Business Statistics will provide readers an understanding of problem-solving methods, and analysis, thus enabling readers to develop the required skills and apply statistical techniques to decision-making problems. A large number of new business-oriented solved as well as practice problems have been added, thus creating a bank of problems that give a better representation of the various business statistics techniques.

Mathematical Statistics with Applications in R, Second Edition, offers a modern calculus-based theoretical introduction to mathematical statistics and applications. The book covers many modern statistical computational and simulation concepts that are not covered in other texts, such as the Jackknife, bootstrap methods, the EM algorithms, and Markov chain Monte Carlo (MCMC) methods such as the Metropolis algorithm, Metropolis-Hastings algorithm and the Gibbs sampler. By combining the discussion on the theory of statistics with a wealth of real-world applications, the book helps students to approach statistical problem solving in a logical manner. This book provides a step-by-step procedure to solve real problems, making the topic more accessible. It includes goodness of fit methods to identify the probability distribution that characterizes the probabilistic behavior or a given set of data. Exercises as well as practical, real-world chapter projects are included, and each chapter has an optional section on using

Minitab, SPSS and SAS commands. The text also boasts a wide array of coverage of ANOVA, nonparametric, MCMC, Bayesian and empirical methods; solutions to selected problems; data sets; and an image bank for students. Advanced undergraduate and graduate students taking a one or two semester mathematical statistics course will find this book extremely useful in their studies. Step-by-step procedure to solve real problems, making the topic more accessible Exercises blend theory and modern applications Practical, real-world chapter projects Provides an optional section in each chapter on using Minitab, SPSS and SAS commands Wide array of coverage of ANOVA, Nonparametric, MCMC, Bayesian and empirical methods

Applied Predictive Modeling covers the overall predictive modeling process, beginning with the crucial steps of data preprocessing, data splitting and foundations of model tuning. The text then provides intuitive explanations of numerous common and modern regression and classification techniques, always with an emphasis on illustrating and solving real data problems. The text illustrates all parts of the modeling process through many hands-on, real-life examples, and every chapter contains extensive R code for each step of the process. This multi-purpose text can be used as an introduction to predictive models and the overall modeling process, a practitioner's reference handbook, or as a text for advanced undergraduate or graduate level predictive modeling courses. To that end, each chapter contains problem sets to help solidify the covered concepts and uses data available in the book's R package. This text is intended for a broad audience as both an introduction to predictive models as well as a guide to applying them. Non-mathematical readers will appreciate the intuitive explanations of the techniques while an emphasis on problem-solving with real data across a wide variety of applications will aid practitioners who wish to extend their expertise. Readers should have knowledge of basic statistical ideas, such as correlation and linear regression analysis. While the text is biased against complex equations, a mathematical background is needed for advanced topics.

Business Statistics Pearson Education India Buss Maths And Stats Tata McGraw-Hill Education BUSINESS MATHEMATICS. Business Statistics, 4th Edition Vikas Publishing House

Two central unifying components of statistics are the likelihood function and the exponential family. These are here brought together for the first time as the central themes of a book on statistical inference, appropriate as an advanced undergraduate or graduate text in mathematical statistics.

Fundamentals of Business Statistics is intended to serve as a core textbook for undergraduate students of BBA, BCA, B Com and CA, ICWA and those who need to understand the basic concepts of business statistics and apply results directly to real-life business problems. The book also suits the requirement of students of AMIE, who need both theoretical and practical knowledge of business statistics. The second edition has been extensively revised with the objective of enhancing and strengthening the conceptual, as well as practical knowledge of readers about various techniques of business statistics. Its easy-to-understand approach will enable readers to develop the required skills and apply statistical techniques to decision-making problems. With a completely new look and feel, this book will facilitate the teaching of business statistics techniques as well as enhance the learning experience for students. New in This Edition • Completely revised and reorganized text to make explanations more cogent through relevant and interesting examples. • Large number of new business-oriented solved as

well as practice problems representing the various business statistics techniques.

- Explanations well illustrated with numerous interesting and varied business-oriented examples.
- Pedagogical features like Conceptual Questions, Self Practice Problems with Hints and Answers.
- Complete conformity to the latest trends of questions appearing in universities and professional examinations.

Introductory Business Statistics is designed to meet the scope and sequence requirements of the one-semester statistics course for business, economics, and related majors. Core statistical concepts and skills have been augmented with practical business examples, scenarios, and exercises. The result is a meaningful understanding of the discipline, which will serve students in their business careers and real-world experiences.

This book has been written in a lucid and easy-to-understand manner to facilitate learning of the fundamentals, use, and application of statistics in areas like business decision making and economic analysis. With rich pedagogy and student-friendly features, it will create the interest of the students in this subject. Written primarily for the students of business management, it will also cater to the requirements of undergraduate and postgraduate students in other disciplines, especially commerce and economics.

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process

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This graduate textbook covers topics in statistical theory essential for graduate students preparing for work on a Ph.D. degree in statistics. This new edition has been revised and updated and in this fourth printing, errors have been ironed out. The first chapter provides a quick overview of concepts and results in measure-theoretic probability theory that are useful in statistics. The second chapter introduces some fundamental concepts in statistical decision theory and inference. Subsequent chapters contain detailed studies on some important topics: unbiased estimation, parametric estimation, nonparametric estimation, hypothesis testing, and confidence sets. A large number of exercises in each chapter provide not only practice problems for students, but also many additional results.

Linear evolution equations in Banach spaces have seen important developments in the last two decades. This is due to the many different applications in the theory of partial differential equations, probability theory, mathematical physics, and other areas, and also to the development of new techniques. One important technique is given by the Laplace transform. It played an important role in the early development of semigroup theory, as can be seen in the pioneering monograph by Rille and Phillips [HP57]. But many new results and concepts have come from Laplace transform techniques in the last 15 years. In contrast to the classical theory, one particular feature of this method is that functions with values in a Banach space have to be considered. The aim of this book is to present the theory of linear evolution equations in a systematic way by using the methods of vector-valued Laplace transforms. It is simple to describe the basic idea relating these two subjects. Let A be a closed linear operator on a Banach space X . The Cauchy problem defined by A is the initial value problem ($t \geq 0$), (CP) $\{u'(t) = Au(t) \quad u(0) = x, \text{ where } x \in X \text{ is a given initial value. If } u \text{ is an exponentially bounded, continuous function, then we may consider the Laplace transform } \int_0^\infty e^{-\lambda t} u(t) dt \text{ of } u \text{ for large real } \lambda. .$

Precise and to the point, this book elucidates the key concepts and methods of business statistics. It aims to supplement textbooks on business statistics and upgrade student's knowledge and skill in the subject and also helps them understand applications of statistical

methods in real-life problems. This book meets the requirement of students pursuing BBA, B.Com. (Hons), MBA, M.Com. etc.

Basics of Computer Applications in Business is a comprehensive & authentic textbook written to impart computer skills and knowledge to commerce students & enhance their understanding of information technology tools in handling business operations. The book's focus is on the application part while providing basic information about computers for first-time readers. This book aims to fulfil the requirement of students of the following: · B.Com. (Prog.) | Semester – III | Paper BC 3.4 (A) under CBCS Program · Non-Collegiate Women's Education Board (NCWEB) · School of Open Learning (SOL) of University of Delhi · Central Universities throughout India The Present Publication is the 3rd Edition, authored by Dr. Hem Chand Jain & H.N. Tiwari, with the following noteworthy features: · [Simple, Systematic & Comprehensive Explanation] The subject matter is presented in a simple, systematic method along with a comprehensive explanation of the concept and theories underlying Computer Application in Business. The focus of this book is on the application part. · [Student-Oriented Book] This book has been developed, keeping in mind the following factors: o Interaction of the author/teacher with their students in the classroom o Shaped by the author/teachers experience of teaching the subject-matter at different levels o Reaction and responses of students have also been incorporated at different places in the book · [Diagrams and Illustrations for easy Understanding] Usage of diagrams & illustrations to enhance the comprehension of various concepts and systems of computers · [Business Examples] Comprehensive coverage of business examples to illustrate the concepts · [MS Excel in Business] Separate chapter to demonstrate how excel is helpful in decision making · [Summary and Review Questions] are given at the end of each chapter for evaluating and understanding the concept Contents of the book are as follows: · Basic Computer Concepts · Microsoft Word 2010 · Basics of PowerPoint · MS Excel 2010 · Excel Functions · Decision Making with Excel 2010 · Excel Projects · Introduction to Database System · DBMS using MS Access 2010 · Mail Merge

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

Now, it is easier than ever before to understand complex mathematical concepts and formulas and how they relate to real-world business situations. All you have to do it apply the handy information you will find in Business Math For Dummies. Featuring practical practice problems to help you expand your skills, this book covers topics like using percents to calculate increases and decreases, applying basic algebra to solve proportions, and working with basic statistics to analyze raw data. Find solutions for finance and payroll applications, including reading financial statements, calculating wages and commissions, and strategic salary planning. Navigate fractions, decimals, and percents in business and real estate transactions, and take fancy math skills to work. You'll be able to read graphs and tables and apply statistics and data analysis. You'll discover ways you can use math in finance and payroll investments, banking and payroll, goods and services, and business facilities and operations.

You'll learn how to calculate discounts and markup, use loans and credit, and understand the ins and outs of math for business facilities and operations. You'll be the company math whiz in no time at all! Find out how to: Read graphs and tables Invest in the future Use loans and credit Navigate bank accounts, insurance, budgets, and payroll Calculate discounts and markup Measure properties and handle mortgages and loans Manage rental and commercial properties Complete with lists of ten math shortcuts to do in meetings and drive your coworkers nuts and ten tips for reading annual reports, *Business Math For Dummies* is your one-stop guide to solving math problems in business situations.

It is an honor to be asked to write a foreword to this book, for I believe that it and other books to follow will eventually lead to a dramatic change in the current statistics curriculum in our universities. I spent the 1975-76 academic year at Florida State University in Tallahassee. My purpose was to complete a book on Statistical Reliability Theory with Frank Proschan. At the time, I was working on total time on test processes. At the same time, I started attending lectures by Dev Basu on statistical inference. It was Lehmann's hypothesis testing course and Lehmann's book was the text. However, I noticed something strange - Basu never opened the book. He was obviously not following it. Instead, he was giving a very elegant, measure theoretic treatment of the concepts of sufficiency, ancillarity, and invariance. He was interested in the concept of information - what it meant. - how it fitted in with contemporary statistics. As he looked at the fundamental ideas, the logic behind their use seemed to evaporate. I was shocked. I didn't like priors. I didn't like Bayesian statistics. But after the smoke had cleared, that was all that was left. Basu loves counterexamples. He is like an art critic in the field of statistical inference. He would find a counterexample to the Bayesian approach if he could. So far, he has failed in this respect.

Mathematics and Statistics for Financial Risk Management is a practical guide to modern financial risk management for both practitioners and academics. Now in its second edition with more topics, more sample problems and more real world examples, this popular guide to financial risk management introduces readers to practical quantitative techniques for analyzing and managing financial risk. In a concise and easy-to-read style, each chapter introduces a different topic in mathematics or statistics. As different techniques are introduced, sample problems and application sections demonstrate how these techniques can be applied to actual risk management problems. Exercises at the end of each chapter and the accompanying solutions at the end of the book allow readers to practice the techniques they are learning and monitor their progress. A companion Web site includes interactive Excel spreadsheet examples and templates. *Mathematics and Statistics for Financial Risk Management* is an indispensable reference for today's financial risk professional.

The Book Provides Quantitative Tools To Tackle Real-Life Problems Of The Corporate World. It Has Been Designed To Prepare Mba Students To Take A Straight Plunge Into The Streams Of Mathematics, Statistics And Operations Research For Business Purposes. It The Book Explores The Evolution And Recognition Of Law, At The Domestic And International Levels, Related To Indigenous Peoples New Dominated By Others.

An Authentic And Comprehensive Text Book On Business Statistics Covering The Entire Syllabus Of B.Com. (Hons.), 1St Year (Paper Iv), Delhi University *Written In A Lucid Style And Simple Language With A View To Present A Qualitative Understanding Of The Subject.

*Comprehensive Step-By-Step Explanations For Easier Understanding Of All The Topics.

*Each Chapter Starts With Chapter Objectives. *Numerous Solved Examples In Each Chapter. *Much Attention Paid To The Selection Of Illustrations And Exercises Throughout The Book. *Answers To All The Problems In A Exercise Given Immediately After The Exercise. *A Large Number Of Exercises Given At Appropriate Places In Each Chapter. *Incorporates Almost All Questions Sets At Delhi University Examination As Well As The Professional Courses With Complete Solutions At Appropriate Places Throughout The Book.

From the ancients' first readings of the innards of birds to your neighbor's last bout with the state lottery, humankind has put itself into the hands of chance. Today life itself may be at stake when probability comes into play--in the chance of a false negative in a medical test, in the reliability of DNA findings as legal evidence, or in the likelihood of passing on a deadly congenital disease--yet as few people as ever understand the odds. This book is aimed at the trouble with trying to learn about probability. A story of the misconceptions and difficulties civilization overcame in progressing toward probabilistic thinking, *Randomness* is also a skillful account of what makes the science of probability so daunting in our own day. To acquire a (correct) intuition of chance is not easy to begin with, and moving from an intuitive sense to a formal notion of probability presents further problems. Author Deborah Bennett traces the path this process takes in an individual trying to come to grips with concepts of uncertainty and fairness, and also charts the parallel path by which societies have developed ideas about chance. Why, from ancient to modern times, have people resorted to chance in making decisions? Is a decision made by random choice fair? What role has gambling played in our understanding of chance? Why do some individuals and societies refuse to accept randomness at all? If understanding randomness is so important to probabilistic thinking, why do the experts disagree about what it really is? And why are our intuitions about chance almost always dead wrong? Anyone who has puzzled over a probability conundrum is struck by the paradoxes and counterintuitive results that occur at a relatively simple level. Why this should be, and how it has been the case through the ages, for bumblers and brilliant mathematicians alike, is the entertaining and enlightening lesson of *Randomness*.

Master data analysis, modeling, and spreadsheet use with **BUSINESS ANALYTICS: DATA ANALYSIS AND DECISION MAKING, 6E!** Popular with students, instructors, and practitioners, this quantitative methods text delivers the tools to succeed with its proven teach-by-example approach, user-friendly writing style, and complete Excel 2016 integration. It is also compatible with Excel 2013, 2010, and 2007. Completely rewritten, Chapter 17, Data Mining, and Chapter 18, Importing Data into Excel, include increased emphasis on the tools commonly included under the Business Analytics umbrella -- including Microsoft Excel's "Power BI" suite. In addition, up-to-date problem sets and cases provide realistic examples to show the relevance of the material. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Business Mathematics & Statistics is primarily intended for the third semester students of B.Com Honours and General courses at the University of Calcutta as per the CBCS syllabus of 2017-18. It is equally helpful for the students undertaking a course on Business Math and Statistics in other universities across Eastern India. The book is segmented into two modules- Module-I for Business Mathematics and Module-II for Statistics. It offers 'learning by practice' approach by providing 2000+ solved examples and questions.

Essential Mathematics for Economics and Business is established as one of the leading introductory textbooks on mathematics for students of business and economics. Combining a user-friendly approach to mathematics with practical applications to the subjects, the text provides students with a clear and comprehensible guide to mathematics. The fundamental mathematical concepts are explained in a simple and accessible style, using a wide selection of worked examples, progress exercises and real-world applications. New to this Edition Fully updated text with revised worked examples and updated material on Excel and Powerpoint New exercises in mathematics and its applications to give further clarity and practice opportunities Fully updated online material including animations and a new test bank The fourth edition is supported by a companion website at www.wiley.com/college/bradley, which contains: Animations of selected worked examples providing students with a new way of understanding the problems Access to the Maple T.A. test bank, which features over 500 algorithmic questions Further learning material, applications, exercises and solutions.

Problems in context studies, which present the mathematics in a business or economics framework. Updated PowerPoint slides, Excel problems and solutions. "The text is aimed at providing an introductory-level exposition of mathematical methods for economics and business students. In terms of level, pace, complexity of examples and user-friendly style the text is excellent - it genuinely recognises and meets the needs of students with minimal maths background." —Colin Glass, Emeritus Professor, University of Ulster "One of the major strengths of this book is the range of exercises in both drill and applications. Also the 'worked examples' are excellent; they provide examples of the use of mathematics to realistic problems and are easy to follow." —Donal Hurley, formerly of University College Cork "The most comprehensive reader in this topic yet, this book is an essential aid to the avid economist who loathes mathematics!" —Amazon.co.uk

Business Mathematics focuses on transforming learning and teaching math into its simplest form by adopting learning by application approach. The book is refreshingly different in its approach, and endeavors to motivate student to learn the concept and apply them in real-life situations. It is purposely designed for the undergraduate students of management and commerce and covers wide range of syllabuses of different universities offering this course. The fourth edition of Business Statistics builds upon the easy-to-understand, problem-solving approach that was the hallmark of the previous editions. Through detailed discussions on procedures that facilitate interpretation of data, this book enables readers to make more considered and informed business decisions. Using tools of application and practice in a variety of solved examples and practice problems, this book will sharpen the students' understanding of basic statistical techniques. Business Statistics, 4e, serves as a core textbook for students of management, commerce and computer science studying business statistics for degrees in BBA/MBA/PGDBM, BCom /MCom, CA/ICWA, and BE/ BTech /MCA as well as for those preparing for professional and competitive examinations. Key Features • Learning Objectives clearly outline the learning outcomes of each chapter • Case Studies illustrate a variety of business situations and suggest solutions to managerial issues using specific statistical techniques • A Chapter Concepts Quiz at the end of each chapter reinforces students' understanding of the basic principles and applications • Conceptual Questions, Self-Practice Problems, Review Self-Practice Problems with Hint and Answers enable students, after each chapter, to practice and then evaluate themselves

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

An excellent book for commerce students appearing in competitive, professional and other examinations. 1. Statistics : Meaning, Nature and Limitations, 2. Statistics : Scope and Importance, 3. Statistical Investigation, 4. Types and Collection of Data, 5. Questionnaire and Schedule, 6. Sample Survey, 7. Editing of Collected Data, 8. Classification and Tabulation of Data, 9. Diagrammatic Presentation of Data, 10. Graphic Presentation of Data, 11. Construction of Frequency Distribution, 12. Measures of Central Tendency, 13. Geometric

Mean and Harmonic Mean, 14. Partition Values, 15. Measures of Dispersion, 16. Measures of Skewness, 17. Moments, 18. Measures of Kurtosis, 19. Correlation, 20. Index Number, 21. Analysis of Time Series, 22. Interpolations and Extrapolation, 23 . Regression Analysis, 24. Probability Theory, 25. Probability Distributions or Theoretical Frequency Distributions, 26. Association of Attributes, 27 . Sampling Theory and Tests of Significance, 28. Chi-Square Test and Goodness of Fit, 29. Analysis of Variance, 30 . Statistical Quality-Control (SQC).

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