

Aczel Complete Business Statistics Solution

Provides students with all the tools they need to pass the typical Quantitative Methods course. This title includes chapters that focus on a selection of statistical techniques, illustrated with examples from across business, marketing, economics, finance, and public administration, that may appeal to students across the business spectrum.

Nowadays applied work in business and economics requires a solid understanding of econometric methods to support decision-making. Combining a solid exposition of econometric methods with an application-oriented approach, this rigorous textbook provides students with a working understanding and hands-on experience of current econometrics. Taking a 'learning by doing' approach, it covers basic econometric methods (statistics, simple and multiple regression, nonlinear regression, maximum likelihood, and generalized method of moments), and addresses the creative process of model building with due attention to diagnostic testing and model improvement. Its last part is devoted to two major application areas: the econometrics of choice data (logit and probit, multinomial and ordered choice, truncated and censored data, and duration data) and the econometrics of time series data (univariate time series, trends, volatility, vector autoregressions, and a brief discussion of SUR models, panel data, and simultaneous equations). · Real-world text examples and practical exercise questions stimulate active learning and show how econometrics can solve practical questions in modern business and economic management. · Focuses on the core of econometrics, regression, and covers two major advanced topics, choice data with applications in marketing and micro-economics, and time series data with applications in finance and macro-economics. · Learning-support features include concise, manageable sections of text, frequent cross-references to related and background material, summaries, computational schemes, keyword lists, suggested further reading, exercise sets, and online data sets and solutions. · Derivations and theory exercises are clearly marked for students in advanced courses. This textbook is perfect for advanced undergraduate students, new graduate students, and applied researchers in econometrics, business, and economics, and for researchers in other fields that draw on modern applied econometrics.

This comprehensive edited volume is the first of its kind, designed to serve as a textbook for long-duration business analytics programs. It can also be used as a guide to the field by practitioners. The book has contributions from experts in top universities and industry. The editors have taken extreme care to ensure continuity across the chapters. The material is organized into three parts: A) Tools, B) Models and C) Applications. In Part A, the tools used by business analysts are described in detail. In Part B, these tools are applied to construct models used to solve business problems. Part C contains detailed applications in various functional areas of business and several case studies. Supporting material can be found in the appendices that develop the pre-requisites for the main text. Every chapter has a business orientation. Typically, each chapter begins with the description of business problems that are transformed into data questions; and methodology is developed to solve these questions. Data analysis is conducted using widely used software, the output and results are clearly explained at each stage of development. These are finally transformed into a business solution. The companion website provides examples, data sets and sample code for each chapter.

Statistical integrity with a complete Excel solution. The seventh edition retains its global emphasis, maintaining its position of being at the vanguard of international issues in business.

Rare earths are elements that are found in the Earth's crust, and are vital ingredients for the production of a wide variety of high tech, defense, and green technologies -- everything from iPhones and medical technologies, to wind turbines, efficiency lighting, smart bombs, and submarines. While they are not particularly "rare" in availability, they are difficult and expensive to mine. Yet, China has managed to gain control over an estimated 97 percent of the rare earth industry since the 1990s through cheap production, high export taxes, and artificial limitations of supply. Rare earths, and China's monopoly over them, became international news after China "unofficially" halted exports to Japan, the United States, and Europe in 2010. This embargo followed a collision between Chinese and Japanese boats in the East China Sea, a locus of geopolitical and economic tension between the two countries. Although the World Trade Organization forced China to scrap its restrictions, it still holds a stranglehold over these elements that are so critical to the economic and security interests of the United States and its allies. Sophia Kalantzakos argues that the 2010 rare earth crisis signaled more than just a trade dispute. Rather, it raises questions about China's use of economic statecraft, and must be regarded as a part of the larger discourse of global power relations. Importantly, this book also argues that the failure of political actors in the United States and Europe to pass policy to address future supply, or the scientific and business communities to devise sustainable rare earth production outside of China, points to future resource competition. Focusing on China's monopoly over the rare earth industry, this book examines the impacts of growing worldwide resource competition and the complexities policymakers face as they develop strategies and responses in an increasingly globalized world.

Simple, elegant, and utterly impossible to prove, Fermat's last theorem captured the imaginations of mathematicians for more than three centuries. For some, it became a wonderful passion. For others it was an obsession that led to deceit, intrigue, or insanity. In a volume filled with the clues, red herrings, and suspense of a mystery novel, Amir D. Aczel reveals the previously untold story of the people, the history, and the cultures that lie behind this scientific triumph. From formulas devised from the farmers of ancient Babylonia to the dramatic proof of Fermat's theorem in 1993, this extraordinary work takes us along on an exhilarating intellectual treasure hunt. Revealing the hidden mathematical order of the natural world in everything from stars to sunflowers, Fermat's Last Theorem brilliantly combines philosophy and hard science with investigative journalism. The result: a real-life detective story of the intellect, at once intriguing, thought-provoking, and impossible to put down.

Nicolas Bourbaki, whose mathematical publications began to appear in the late 1930s and continued to be published through most of the twentieth century, was a direct product as well as a major force behind an important revolution that

took place in the early decades of the twentieth century that completely changed Western culture. Pure mathematics, the area of Bourbaki's work, seems on the surface to be an abstract field of human study with no direct connection with the real world. In reality, however, it is closely intertwined with the general culture that surrounds it. Major developments in mathematics have often followed important trends in popular culture; developments in mathematics have acted as harbingers of change in the surrounding human culture. The seeds of change, the beginnings of the revolution that swept the Western world in the early decades of the twentieth century — both in mathematics and in other areas — were sown late in the previous century. This is the story both of Bourbaki and the world that created him in that time. It is the story of an elaborate intellectual joke — because Bourbaki, one of the foremost mathematicians of his day — never existed. The invention of numerals is perhaps the greatest abstraction the human mind has ever created. Virtually everything in our lives is digital, numerical, or quantified. The story of how and where we got these numerals, which we so depend on, has for thousands of years been shrouded in mystery. Finding Zero is an adventure filled saga of Amir Aczel's lifelong obsession: to find the original sources of our numerals. Aczel has doggedly crisscrossed the ancient world, scouring dusty, moldy texts, cross examining so-called scholars who offered wildly differing sets of facts, and ultimately penetrating deep into a Cambodian jungle to find a definitive proof. Here, he takes the reader along for the ride. The history begins with the early Babylonian cuneiform numbers, followed by the later Greek and Roman letter numerals. Then Aczel asks the key question: where do the numbers we use today, the so-called Hindu-Arabic numerals, come from? It is this search that leads him to explore uncharted territory, to go on a grand quest into India, Thailand, Laos, Vietnam, and ultimately into the wilds of Cambodia. There he is blown away to find the earliest zero—the keystone of our entire system of numbers—on a crumbling, vine-covered wall of a seventh-century temple adorned with eaten-away erotic sculptures. While on this odyssey, Aczel meets a host of fascinating characters: academics in search of truth, jungle trekkers looking for adventure, surprisingly honest politicians, shameless smugglers, and treacherous archaeological thieves—who finally reveal where our numbers come from.

Now in its second edition, this textbook introduces readers to the IBM SPSS Modeler and guides them through data mining processes and relevant statistical methods. Focusing on step-by-step tutorials and well-documented examples that help demystify complex mathematical algorithms and computer programs, it also features a variety of exercises and solutions, as well as an accompanying website with data sets and SPSS Modeler streams. While intended for students, the simplicity of the Modeler makes the book useful for anyone wishing to learn about basic and more advanced data mining, and put this knowledge into practice. This revised and updated second edition includes a new chapter on imbalanced data and resampling techniques as well as an extensive case study on the cross-industry standard process for data mining.

Business Statistics, Abridged Fifth Edition offers an introduction to the key concepts essential to an introductory business statistics course. Based on market research, this abridgement has removed six chapters considered to be superfluous leaving a text that more accurately reflects market needs. This abridged edition continues to provide the student with a clear understanding of the core statistical concepts and rich problems to stimulate learning.

Statistical data analysis is the backbone of sound business decision making. Finding the right tool to analyse a particular business problem is the key to such problem solving. Learning the fundamentals of statistical reasoning and data analysis - you will be on the way to becoming a better manager, analyst or economist. By providing a framework for solving statistical problems, this sixth edition of Australian Business Statistics teaches skills that you can use throughout your career. The book shows you how to analyse data effectively by focusing on the relationship between the kind of problem you face, the type of data involved and the appropriate statistical technique for solving the problem. Business Statistics 6e, emphasizes applications over theory. It illustrates how vital statistical methods and tools are for today's managers and analysts and how to apply them to business problems using real-world data. Using a proven three-step Identify-Compute-Interpret (ICI) approach to problem solving, the text teaches you how to (1) IDENTIFY the correct statistical technique by focusing on the problem objective and data type; (2) COMPUTE the statistics doing them by hand and using Excel; and (3) INTERPRET results in the context of the problem. This unique approach enhances your comprehension and practical skills. The text's vast assortment of data-driven examples, exercises, and cases covers the various functional areas of business, demonstrating the statistical applications that marketing managers, financial analysts, accountants, economists, and others use. Learning resources such as CourseMate maximize study time to help you achieve the results you want. Completely up-to-date, the sixth edition offers comprehensive coverage, current examples, and an increased focus on applications in the real world.

Instructor's Solutions Manual to Accompany Complete Business Statistics Complete Business Statistics Irwin Professional Pub Complete Business Statistics with Student CDMcGraw-Hill/Irwin

An undergraduate textbook for majors in business.

Known for its accessible, precise approach, Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The book describes up-to-date applications and relevant theoretical results. These applications come from various places, but the most important one, numerically speaking, is the internet based educational system ALEKS. The ALEKS

system is bilingual English-Spanish and covers all of mathematics, from third grade to the end of high school, and chemistry. It is also widely used in higher education because US students are often poorly prepared when they reach the university level. The chapter by Taagepera and Arasasingham deals with the application of knowledge spaces, independent of ALEKS, to the teaching of college chemistry. The four chapters by Albert and his collaborators strive to give cognitive interpretations to the combinatoric structures obtained and used by the ALEKS system. The contribution by Eppstein is technical and develops means of searching the knowledge structure efficiently.

At one level, this book surveys recent findings about the existence of planets orbiting other sun-like stars, such as 51 Pegasi (discovered in 1995) and Tau Bootis. It addresses questions such as what life is and what intelligent life is, as well as theories about how life evolved on Earth from basic molecules into more complex organic compounds leading to DNA. The existence of similar molecules on other planets in our solar system, as well as in meteorites that land on Earth every year, is used in an argument for the evolution of such compounds - the building blocks of life - outside Earth. At the same time, the author applies the laws of large numbers to the immense size of the known universe, with its billions of galaxies, each containing many billions of stars, to argue the probability that there is life elsewhere.

#1 NEW YORK TIMES BEST SELLER • In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical—and accessible—plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

The standard rules of probability can be interpreted as uniquely valid principles in logic. In this book, E. T. Jaynes dispels the imaginary distinction between 'probability theory' and 'statistical inference', leaving a logical unity and simplicity, which provides greater technical power and flexibility in applications. This book goes beyond the conventional mathematics of probability theory, viewing the subject in a wider context. New results are discussed, along with applications of probability theory to a wide variety of problems in physics, mathematics, economics, chemistry and biology. It contains many exercises and problems, and is suitable for use as a textbook on graduate level courses involving data analysis. The material is aimed at readers who are already familiar with applied mathematics at an advanced undergraduate level or higher. The book will be of interest to scientists working in any area where inference from incomplete information is necessary.

BASIC STATISTICS FOR BUSINESS AND ECONOMICS, 4/e contains comprehensive coverage of statistical tools and methods delivered in a student friendly, step-by-step format. The text is non-threatening and presents concepts clearly and succinctly with a conversational writing style. All statistical concepts are illustrated with solved applied examples immediately upon introduction. Modern computing tools and applications are introduced, but the text maintains a focus on presenting statistics content as oppose to technology or programming methods, this edition continues as a 'students' text with increased emphasis on interpretation of data and results. This essentials version of the more comprehensive text includes 13 chapters (versus 20 chapters in the longer 11/e), in a two-color format, with some condensed coverage and all optional topics or chapters eliminated. It contains the core topics covered in most Business Statistics courses in fewer pages.

This is an introduction to probabilistic and statistical concepts necessary to understand the basic ideas and methods of stochastic differential equations. Based on measure theory, which is introduced as smoothly as possible, it provides practical skills in the use of MAPLE in the context of probability and its applications. It offers to graduates and advanced undergraduates an overview and intuitive background for more advanced studies.

MODERN BUSINESS STATISTICS, 5E allows students to gain a strong conceptual understanding of statistics with a balance of real-world applications and a focus on the integrated strengths of Microsoft Excel 2013. To ensure student understanding, this best-selling, comprehensive text carefully discusses and clearly develops each statistical technique in a solid application setting. Microsoft Excel 2013 instruction, which is integrated in each chapter, plays an integral part in strengthening this edition's applications orientation. Immediately after each easy-to-follow presentation of a statistical procedure, a subsection discusses how to use Excel to perform the procedure. This integrated approach emphasizes the applications of Excel while focusing on the statistical methodology. Step-by-step instructions and screen captures further clarify student learning. A wealth of timely business examples, proven methods, and additional exercises throughout this edition demonstrate how statistical results provide insights into business decisions and present solutions to contemporary business problems. High-quality problems noted for their unwavering accuracy and the authors' signature problem-scenario approach clearly show how to apply statistical methods to practical business situations. New case problems and self-tests allow students to challenge their personal understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

In 1851, struggling, self-taught physicist Léon Foucault performed a dramatic demonstration inside the Panthéon in Paris. By

tracking a pendulum's path as it swung repeatedly across the interior of the large ceremonial hall, Foucault offered the first definitive proof -- before an audience that comprised the cream of Parisian society, including the future emperor, Napoleon III -- that the earth revolves on its axis. Through careful, primary research, world-renowned author Amir Aczel has revealed the life of a gifted physicist who had almost no formal education in science, and yet managed to succeed despite the adversity he suffered at the hands of his peers. The range and breadth of Foucault's discoveries is astonishing: He gave us the modern electric compass, devised an electric microscope, invented photographic technology, and made remarkable deductions about color theory, heat waves, and the speed of light. Yet until now so little has been known about his life. Richly detailed and evocative, *Pendulum* tells of the illustrious period in France during the Second Empire; of Foucault's relationship with Napoleon III, a colorful character in his own right; and -- most notably -- of the crucial triumph of science over religion. Dr. Aczel has crafted a fascinating narrative based on the life of this most astonishing and largely unrecognized scientist, whose findings answered many age-old scientific questions and posed new ones that are still relevant today.

Black's latest outstanding pedagogy of Business Statistics includes the use of extra problems called "Demonstration Problems" to provide additional insight and explanation to working problems, and presents concepts, topics, formulas, and application in a manner that is palatable to a vast audience and minimizes the use of "scary" formulas. Every chapter opens up with a vignette called a "Decision Dilemma" about real companies, data, and business issues. Solutions to these dilemmas are presented as a feature called "Decision Dilemma Solved." In this edition all cases and "Decision Dilemmas" are updated and revised and 1/3 have been replaced for currency. There is also a significant number of additional problems and an extremely competitive collection of databases (containing real data) on: international stock markets, consumer food, international labor, financial, energy, agribusiness, 12-year gasoline, manufacturing, and hospital.

Highly praised for its clarity and great examples, Weiers' *INTRODUCTION TO BUSINESS STATISTICS, 6E* introduces fundamental statistical concepts in a conversational language that connects with today's students. Even those intimidated by statistics quickly discover success with the book's proven learning aids, outstanding illustrations, non-technical terminology, and hundreds of current examples drawn from real-life experiences familiar to students. A continuing case and contemporary applications combine with more than 100 new or revised exercises and problems that reflect the latest changes in business today with an accuracy you can trust. You can easily introduce today's leading statistical software and teach not only how to complete calculations by hand and using Excel, but also how to determine which method is best for a particular task. The book's student-oriented approach is supported with a wealth of resources, including the innovative new CengageNOW online course management and learning system that saves you time while helping students master the statistical skills most important for business success.

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Statistics is a key area of the school mathematics curriculum where maths and the real world meet. Designed to heighten awareness of statistical ideas, the text explores key themes within statistics through a variety of approaches, including ICT-based simulations, stories and events.

Classic analysis of the foundations of statistics and development of personal probability, one of the greatest controversies in modern statistical thought. Revised edition. Calculus, probability, statistics, and Boolean algebra are recommended.

Business Statistics and Analytics in Practice 9e covers standard business statistics and business analytics topics, with a continuous case running throughout chapters, allowing students to use data for a more applied and practical approach to the subject. Topics are clearly organised, giving instructors the choice of whether or not to cover business analytics areas. Featuring Connect, SmartBook, Guided Examples, Algorithmic Problems and a business statistics, maths and Excel prep component, Bowerman is a perfect fit for the instructor who wants a business stats text with business analytics focus.

While most books on statistics seem to be written as though targeting other statistics professors, John Reinard's *Communication Research Statistics* is especially impressive because it is clearly intended for the student reader, filled with unusually clear explanations and with illustrations on the use of SPSS. I enjoyed reading this lucid, student-friendly book and expect students will benefit enormously from its content and presentation. Well done!" --John C. Pollock, The College of New Jersey Written in an accessible style using straightforward and direct language, *Communication Research Statistics* guides students through the statistics actually used in most empirical research undertaken in communication studies. This introductory textbook is the only work in communication that includes details on statistical analysis of data with a full set of data analysis instructions based on SPSS 12 and Excel XP.

Scoring Performance Assessments Based on Judgements focuses on the applications of Generalizability Theory to Performance Assessment. The author developed an objective method to examine the dependability of the scoring of large-scale performance assessments by humans. This book presents principles in identifying common missing data patterns inherent in assessment designs. These principles can be used to guide the design of assessment procedures including those used in large-scale testing programs, observations, and structured interviews.

Celebrated mathematician Amir D Aczel sets his sights on the probability theory - the branch of mathematics that measures the likelihood of a random event. What is commonly called 'luck' has mathematical roots - and in Aczel's capable hands readers learn to increase their odds of success in everything from true love to the stock market.

This Set Contains: *Continuous Multivariate Distributions, Volume 1, Models and Applications, 2nd Edition* by Samuel Kotz, N. Balakrishnan and Normal L. Johnson *Continuous Univariate Distributions, Volume 1, 2nd Edition* by Samuel Kotz, N. Balakrishnan and Normal L. Johnson *Continuous Univariate Distributions, Volume 2, 2nd Edition* by Samuel Kotz, N. Balakrishnan and Normal L. Johnson *Discrete Multivariate Distributions* by Samuel Kotz, N. Balakrishnan and Normal L. Johnson *Univariate Discrete Distributions, 3rd Edition* by Samuel Kotz, N. Balakrishnan and Normal L. Johnson Discover the latest advances in discrete

distributionstheory The Third Edition of the critically acclaimed Univariate Discrete Distributions provides a self-contained, systematic treatment of the theory, derivation, and application of probability distributions for count data. Generalized zeta-function and q-series distributions have been added and are covered in detail. New families of distributions, including Lagrangian-type distributions, are integrated into this thoroughly revised and updated text. Additional applications of univariate discrete distributions are explored to demonstrate the flexibility of this powerful method. A thorough survey of recent statistical literature draws attention to many new distributions and results for the classical distributions. Approximately 450 new references along with several new sections are introduced to reflect the current literature and knowledge of discrete distributions. Beginning with mathematical, probability, and statistical fundamentals, the authors provide clear coverage of the key topics in the field, including: Families of discrete distributions Binomial distribution Poisson distribution Negative binomial distribution Hypergeometric distributions Logarithmic and Lagrangian distributions Mixture distributions Stopped-sum distributions Matching, occupancy, runs, and q-series distributions Parametric regression models and miscellanea Emphasis continues to be placed on the increasing relevance of Bayesian inference to discrete distribution, especially with regard to the binomial and Poisson distributions. New derivations of discrete distributions via stochastic processes and random walks are introduced without unnecessarily complex discussions of stochastic processes. Throughout the Third Edition, extensive information has been added to reflect the new role of computer-based applications. With its thorough coverage and balanced presentation of theory and application, this is an excellent and essential reference for statisticians and mathematicians.

"The 4th edition of Ghahramani's book is replete with intriguing historical notes, insightful comments, and well-selected examples/exercises that, together, capture much of the essence of probability. Along with its Companion Website, the book is suitable as a primary resource for a first course in probability. Moreover, it has sufficient material for a sequel course introducing stochastic processes and stochastic simulation." --Nawaf Bou-Rabee, Associate Professor of Mathematics, Rutgers University Camden, USA "This book is an excellent primer on probability, with an incisive exposition to stochastic processes included as well. The flow of the text aids its readability, and the book is indeed a treasure trove of set and solved problems. Every sub-topic within a chapter is supplemented by a comprehensive list of exercises, accompanied frequently by self-quizzes, while each chapter ends with a useful summary and another rich collection of review problems." --Dalia Chakrabarty, Department of Mathematical Sciences, Loughborough University, UK "This textbook provides a thorough and rigorous treatment of fundamental probability, including both discrete and continuous cases. The book's ample collection of exercises gives instructors and students a great deal of practice and tools to sharpen their understanding. Because the definitions, theorems, and examples are clearly labeled and easy to find, this book is not only a great course accompaniment, but an invaluable reference." --Joshua Stangle, Assistant Professor of Mathematics, University of Wisconsin – Superior, USA This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive examples and exercises that motivate the theory, definitions, theorems, and methodology. This book is mathematically rigorous and, at the same time, closely matches the historical development of probability. Whenever appropriate, historical remarks are included, and the 2096 examples and exercises have been carefully designed to arouse curiosity and hence encourage students to delve into the theory with enthusiasm. New to the Fourth Edition: 538 new examples and exercises have been added, almost all of which are of applied nature in realistic contexts Self-quizzes at the end of each section and self-tests at the end of each chapter allow students to check their comprehension of the material An all-new Companion Website includes additional examples, complementary topics not covered in the previous editions, and applications for more in-depth studies, as well as a test bank and figure slides. It also includes complete solutions to all self-test and self-quiz problems Saeed Ghahramani is Professor of Mathematics and Dean of the College of Arts and Sciences at Western New England University. He received his Ph.D. from the University of California at Berkeley in Mathematics and is a recipient of teaching awards from Johns Hopkins University and Towson University. His research focuses on applied probability, stochastic processes, and queuing theory.

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