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The coalbed methane (CBM) reserve in China ranks third in the world with a total resource of 36.8×10^{12} m³. Exploitation of CBM has an important practical significance to ensure the long-term rapid development of China natural gas industry. Therefore, in 2002, the Ministry of Science and Technology of China set up a national 973 program to study CBM system and resolve problems of CBM exploration and exploitation in China. All the main research results and new insights from the program are presented in this book. The book is divided into 11 chapters. The first chapter mainly introduces the present situation of CBM exploration and development in China and abroad. Chapters 2 through 9 illustrate the geological theory and prospect evaluation methods. Then chapters 10 and 11 discuss CBM recovery mechanisms and technology. The book systematically describes the origin, storage, accumulation and emission of CBM in China, and also proposes new methods and technologies on resource evaluation, prospect prediction, seismic interpretation and enhanced recovery. The book will appeal to geologists, lecturers and students who are involved in the CBM industry and connected with coal and conventional hydrocarbon resources research. A comprehensive guide to statistics—with information on collecting, measuring, analyzing, and presenting statistical data—continuing the popular 101 series. Data is everywhere. In the age of the internet and social media, we're responsible for consuming, evaluating, and analyzing data on a daily basis. From understanding the percentage probability that it will rain later today, to evaluating your risk of a health problem, or the fluctuations in the stock market, statistics impact our lives in a variety of ways, and are vital to a variety of careers and

fields of practice. Unfortunately, most statistics text books just make us want to take a snooze, but with **Statistics 101**, you'll learn the basics of statistics in a way that is both easy-to-understand and apply. From learning the theory of probability and different kinds of distribution concepts, to identifying data patterns and graphing and presenting precise findings, this essential guide can help turn statistical math from scary and complicated, to easy and fun. Whether you are a student looking to supplement your learning, a worker hoping to better understand how statistics works for your job, or a lifelong learner looking to improve your grasp of the world, **Statistics 101** has you covered. A core statistics text that emphasizes logical inquiry, not math **Basic Statistics for Social Research** teaches core general statistical concepts and methods that all social science majors must master to understand (and do) social research. Its use of mathematics and theory are deliberately limited, as the authors focus on the use of concepts and tools of statistics in the analysis of social science data, rather than on the mathematical and computational aspects. Research questions and applications are taken from a wide variety of subfields in sociology, and each chapter is organized around one or more general ideas that are explained at its beginning and then applied in increasing detail in the body of the text. Each chapter contains instructive features to aid students in understanding and mastering the various statistical approaches presented in the book, including: Learning objectives Check quizzes after many sections and an answer key at the end of the chapter Summary Key terms End-of-chapter exercises SPSS exercises (in select chapters) Ancillary materials for both the student and the instructor are available and include a test bank for instructors and downloadable video tutorials for students. This field-leading introduction to statistics text for students in the behavioral and social sciences continues to offer straightforward instruction, accuracy, built-in learning aids, and real-world examples. The goals

of STATISTICS FOR THE BEHAVIORAL SCIENCES, 10th Edition are to teach the methods of statistics and convey the basic principles of objectivity and logic that are essential for science -- and valuable in everyday life. Authors Frederick Gravetter and Larry Wallnau help students understand statistical procedures through a conceptual context that explains why the procedures were developed and when they should be used. Students have numerous opportunities to practice statistical techniques through learning checks, examples, step-by-step demonstrations, and problems.

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This book is a useful overview of results in multivariate probability distributions and multivariate analysis as well as a reference to harmonic analysis on symmetric cones adapted to the needs of researchers in analysis and probability theory. This brief monograph is an in-depth study of the infinite divisibility and self-decomposability properties of central and noncentral Student's distributions, represented as variance and mean-variance mixtures of multivariate Gaussian distributions with the reciprocal gamma mixing distribution. These results allow us to define and analyse Student-Lévy processes as Thorin subordinated Gaussian Lévy processes. A broad class of one-dimensional, strictly stationary diffusions with the Student's t-marginal distribution are defined as the unique weak solution for the stochastic differential equation. Using the independently scattered random measures generated by the bi-variate centred Student-Lévy process, and stochastic integration theory, a univariate, strictly stationary process with the centred Student's t- marginals and the arbitrary correlation structure are defined. As a promising direction for future work in constructing and analysing new multivariate Student-Lévy type processes, the notion of Lévy copulas and the related analogue of Sklar's theorem are explained. Statistics and probability are sections of mathematics

that deal with data collection and analysis. Probability is the study of chance and is a very fundamental subject that we apply in everyday living, while statistics is more concerned with how we handle data using different analysis techniques and collection methods. After closely examining the multiplication rule and its applications, including the dreaded at-least-problems, it goes on to show how the binomial distribution works, what astonishing things you can do with the expected value, what's so great about the Poisson distribution, how to solve statistical problems using geometry and what all the fuss with Bayes' theorem is about. As a plus, the final chapter provides a quick peek into further statistical concepts such as Markov chains, standard deviation and standard error, Chi-Square and cellular automata. Besides demonstrating how the concepts work, the many bits of applications, the statistical snacks, cover a wide and diverse range of topics: monkeys on a typewriter, multiple choice tests, missile accuracy, collecting stickers, fair games, quantitative linguistics, space probe communication, soccer, tired colleagues, drunk drivers, immigrants and crime, pirates and global warming and many more. The book covers important topics: basic properties of distributions, convolution, Fourier transforms, Sobolev spaces, weak solutions, distributions on locally convex spaces and on differentiable manifolds. It is a largely self-contained text." This book, first published in 1979, explores the sources and patterns of the distribution of personal incomes in India, between rural and urban areas and among socio-economic classes, differentiating particularly those groups falling below the poverty line. Online Statistics: An Interactive Multimedia Course of Study is a resource for learning and teaching introductory statistics. It contains material presented in textbook format and as video presentations. This resource features interactive demonstrations and simulations, case studies, and an analysis lab. This print edition of the public domain textbook gives the student an opportunity to own a physical copy to

help enhance their educational experience. This part I features the book Front Matter, Chapters 1-10, and the full Glossary. Chapters Include:: I. Introduction, II. Graphing Distributions, III. Summarizing Distributions, IV. Describing Bivariate Data, V. Probability, VI. Research Design, VII. Normal Distributions, VIII. Advanced Graphs, IX. Sampling Distributions, and X. Estimation. Online Statistics Education: A Multimedia Course of Study (<http://onlinestatbook.com/>). Project Leader: David M. Lane, Rice University. Physical Distribution is a distinct but integral part of business logistics, involving all those activities relating to the physical movement of goods from the factory to the consumer. Recently, the concept has been expanded to supply chain management which enables better customer relationship with smooth supply of goods. This introductory text is focused on the essential concepts, tools and strategies that comprise Distribution Management. It emphasizes the idea that distribution management is an effective marketing strategy and a potent competitive tool. Defining the concept of physical distribution in the initial chapter, the book then describes in detail the objectives, functions and components of all the activity centres of physical distribution in the Indian context, from a systems approach. An exclusive chapter is devoted to transportation functions, highlighting the features of interstate movement of goods and the legal procedures related to them. Sufficient coverage is also given to related topics such as distribution control, performance evaluation and organization of physical distribution, besides the 'trade-off' concept. The book, with its wide coverage of topics, should prove to be of immense value to undergraduate students in Business Administration and Business Management. Introduction to Data Science: Data Analysis and Prediction Algorithms with R introduces concepts and skills that can help you tackle real-world data analysis challenges. It covers concepts from probability, statistical inference, linear regression, and machine learning. It also helps you develop

skills such as R programming, data wrangling, data visualization, predictive algorithm building, file organization with UNIX/Linux shell, version control with Git and GitHub, and reproducible document preparation. This book is a textbook for a first course in data science. No previous knowledge of R is necessary, although some experience with programming may be helpful. The book is divided into six parts: R, data visualization, statistics with R, data wrangling, machine learning, and productivity tools. Each part has several chapters meant to be presented as one lecture. The author uses motivating case studies that realistically mimic a data scientist's experience. He starts by asking specific questions and answers these through data analysis so concepts are learned as a means to answering the questions. Examples of the case studies included are: US murder rates by state, self-reported student heights, trends in world health and economics, the impact of vaccines on infectious disease rates, the financial crisis of 2007-2008, election forecasting, building a baseball team, image processing of hand-written digits, and movie recommendation systems. The statistical concepts used to answer the case study questions are only briefly introduced, so complementing with a probability and statistics textbook is highly recommended for in-depth understanding of these concepts. If you read and understand the chapters and complete the exercises, you will be prepared to learn the more advanced concepts and skills needed to become an expert. Introduction, basic concepts, and assumptions; Overview of different of statistics intervals; Constructing statistical intervals assuming a normal distribution using simple tabulations; Methods for calculating statistical intervals for a normal distribution; Distribution-free statistical intervals; Statistical intervals for proportions and percentages (Binomial Distribution); Statistical intervals for the number of occurrences (Poisson distribution); Sample size requirements for confidence intervals on population parameters; Sample size requirements for

tolerance intervals, tolerance bounds, and demonstration tests; Sample size requirements for prediction intervals; A review of other statistical intervals; Other methods for setting statistical intervals; Case studies. The basic properties of generalized parton distributions (GPDs) and some recent applications of GPDs are discussed.

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