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Bayesian statistical methods have become widely used for data analysis and modelling in recent years, and the BUGS software has become the most popular software for Bayesian analysis worldwide. Authored by the team that originally developed this software, The BUGS Book provides a practical introduction to this program and its use. The text presents complete coverage of all the functionalities of BUGS, including prediction, missing data, model criticism, and prior sensitivity. It also features a large number of worked examples and a wide range of applications from various disciplines. The book introduces regression models, techniques for criticism and comparison, and a wide range of modelling issues before going into the vital area of hierarchical models, one of the most common applications of Bayesian methods. It deals with essentials of modelling without getting bogged down in complexity. The book emphasises model criticism, model comparison, sensitivity analysis to alternative priors, and thoughtful choice of prior distributions—all those aspects of the "art" of modelling that are easily overlooked in more theoretical expositions. More pragmatic than ideological, the authors systematically work through the large range of "tricks" that reveal the real power of the BUGS software, for example, dealing with missing data, censoring, grouped data, prediction, ranking, parameter constraints, and so on. Many of the examples are biostatistical, but they do not require domain knowledge and are generalisable to a wide range of other application areas. Full code and data for examples, exercises, and some solutions can be found on the book’s website.
Introduction to Analysis is an ideal text for a one semester course on analysis. The book covers standard material on the real numbers, sequences, continuity, differentiation, and series, and includes an introduction to proof. The author has endeavored to write this book entirely from the student’s perspective: there is enough rigor to challenge even the best students in the class, but also enough explanation and detail to meet the needs of a struggling student. From the Author to the student: "I vividly recall sitting in an Analysis class and asking myself, "What is all of this for?" or 'I don’t have any idea what’s going on.' This book is designed to help the student who finds themselves asking the same sorts of questions, but will also challenge the brightest students." Chapter 1 is a basic introduction to logic and proofs. Informal summaries of the idea of proof provided before each result, and before a solution to a practice problem. Every chapter begins with a short summary, followed by a brief abstract of each section. Each section ends with a concise and referenced summary of the material which is designed to give the student a "big picture" idea of each section. There is a brief and non-technical summary of the goals of a proof or solution for each of the results and practice problems in this book, which are clearly marked as "Idea of proof," or as "Methodology", followed by a clearly marked formal proof or solution. Many references to previous definitions and results. A "Troubleshooting Guide" appears at the end of each chapter that answers common questions.
The need for new types of sensors is more critical than ever. This is due to the emergence of increasingly complex technologies, health and security concerns of a burgeoning world population, and the emergence of terrorist activities, among other factors. Depending on their application, the design, fabrication, testing, and use of sensors, all require various kinds of both technical and nontechnical expertise. With this in mind, Introduction to Sensors examines the theoretical foundations and practical applications of electrochemical, piezoelectric, fiber optic, thermal, and magnetic sensors and their use in the modern era. Incorporating information from sensor-based industries to review current developments in the field, this book: Presents a complete sensor system that includes the preparation phase, the sensing element and platform, and appropriate electronics resulting in a digital readout Discusses solid-state electronic sensors, such as the metal oxide semiconductor (MOS) capacitor, the micromachined capacitive polymer, and the Schottky diode sensors Uses the two-dimensional hexagonal lattice as an example to detail the basic theory associated with piezoelectricity Explores the fundamental relationship between stress, strain, electric field, and electric displacement The magnetic sensors presented are used to determine measurands such as the magnetic field and semiconductor properties, including carrier concentration and mobility. Offering the human body and the automobile as examples of entities that rely on a multiplicity of sensors, the authors address the application of various types of sensors, as well as the theory and background information associated with their development and the materials used in their design. The coverage in this book reveals the underlying rationale for the application of different sensors while also defining the properties and characteristics of each.
In the nearly 10 years since the publication of the bestselling first edition of Introduction to Green Chemistry, interest in green chemistry and clean processes has grown so much that topics, such as fluorous biphasic catalysis, metal organic frameworks, and process intensification, barely mentioned in the first edition, have become major areas of research. In addition, government funding has ramped up the development of fuel cells and biofuels. It reflects the evolving focus from pollution remediation to pollution prevention. Copiously illustrated with over 800 figures, this second edition provides an update from the frontiers of the field. New and expanded research topics: Metal-organic frameworks Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro- and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale Updated and expanded current events topics: Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics, including catalysis, benign solvents, and alternative feedstocks. It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Longer Wear and Population and the Environment. This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society.

The emphasis of the book is on the question of Why – only if why an algorithm is successful is understood, can it be properly applied, and the results trusted. Algorithms are often taught side by side without showing the similarities and differences between them. This book addresses the commonalities, and aims to give a thorough and in-depth treatment and develop intuition, while remaining concise. This useful reference should be an essential on the bookshelves of anyone employing machine learning techniques.
This book covers techniques that can be used to analyze data from IoT sensors and addresses questions regarding the performance of an IoT system. It strikes a balance between practice and theory so one can learn how to apply these tools in practice with a good understanding of their inner workings. This is an introductory book for readers who have no familiarity with these techniques. The techniques presented in An Introduction to IoT Analytics come from the areas of machine learning, statistics, and operations research. Machine learning techniques are described that can be used to analyze IoT data generated from sensors for clustering, classification, and regression. The statistical techniques described can be used to carry out regression and forecasting of IoT sensor data and dimensionality reduction of data sets. Operations research is concerned with the performance of an IoT system by constructing a model of the system under study and then carrying out a what-if analysis. The book also describes simulation techniques. Key Features IoT analytics is not just machine learning but also involves other tools, such as forecasting and simulation techniques. Many diagrams and examples are given throughout the book to fully explain the material presented. Each chapter concludes with a project designed to help readers better understand the techniques described. The material in this book has been class tested over several semesters. Practice exercises are included with solutions provided online at www.routledge.com/9780367686314 Harry G. Perros is a Professor of Computer Science at North Carolina State University, an Alumni Distinguished Graduate Professor, and an IEEE Fellow. He has published extensively in the area of performance modeling of computer and communication systems.
Microeconomic Principles and Problems offers a comprehensive introduction to all major perspectives in modern economics, including mainstream and heterodox approaches. Through providing multiple views of markets and how they work, it will leave readers better able to understand and analyse the complex behaviours of consumers, firms, and government officials, as well as the likely impact of a variety of economic events and policies. Most principles of microeconomics textbooks cover only mainstream economics, ignoring rich heterodox ideas. They also lack material on the great economists, including the important ideas of Adam Smith, Karl Marx, Thorstein Veblen, John Maynard Keynes and Friedrich Hayek. Mainstream books neglect the kind of historical analysis that is crucial to understanding trends that help us predict the future. Moreover, they focus on abstract models more than existing economic realities. This engaging book addresses these inadequacies. Including explicit coverage of the major heterodox schools of thought, it allows the reader to choose which ideas they find most compelling in explaining modern economic realities. Written in an engaging style focused on real world examples, this ground-breaking book brings economics to life. It offers the most contemporary and complete package for any pluralistic microeconomics class.

"pedagogical and accessible" —Nathan Seiberg, Professor, Institute for Advanced Study, Princeton, New Jersey "an excellent book" —Andreas Karch, Professor, University of Washington "provides remarkable insights into technical aspects of the subject, but also into the most basic conceptual questions which trouble both new students and more mature researchers" —Michael Dine, Professor, University of California, Santa Cruz This authoritative, advanced introduction provides a complete, modern perspective on quantum mechanics. It clarifies many common misconceptions regarding wave/particle duality and the correct interpretation of measurements. The author develops the text from the ground up, starting from the fundamentals and presenting information at an elementary level, avoiding unnecessarily detailed and complex derivations in favor of simple, clear explanations. He begins in the simplest context of a two-state system and shows why quantum mechanics is inevitable, and what its relationship is to classical mechanics. He also outlines the decoherence approach to interpreting quantum mechanics. Distinguishing features: Provides a thorough grounding in the principles and practice of quantum mechanics, including a core understanding of the behavior of atoms, molecules, solids, and light. Utilizes easy-to-follow examples and analogies to illustrate important concepts. Helps develop an intuitive sense for the field, by guiding the reader to understand how the correct formulas reduce to the non-relativistic ones. Includes numerous worked examples and problems for each chapter. Thomas Banks is a theoretical physicist at University of California, Santa Cruz and a professor at Rutgers University. He earned his PhD in physics from the Massachusetts Institute of Technology, and has been a visiting scholar at the Institute for Advanced Study in Princeton, New Jersey. Professor Banks is the recipient of a Guggenheim Fellowship and is an elected member of the American Academy of Arts and Sciences.

This book offers an introduction to the basics of MATLAB programming to scientists and engineers. The author leads with engaging examples to build a working knowledge, specifically geared to those with science and engineering backgrounds. The reader is empowered to model and simulate real systems, as well as present and analyze everyday data sets. In order to achieve those goals, the contents bypass excessive "under the hood" details, and instead gets right down to the essential, practical foundations for successful programming and modeling. Readers will benefit from the following features: Teaches programming to scientists and engineers using a problem-based approach, leading with illustrative and interesting examples. Emphasizes a hands-on approach, with "must know" information and minimal technical details. Utilizes examples from science and engineering to showcase the application of learned concepts on real problems. Showcases modeling of real systems, gradually advancing from simpler to more challenging problems. Highlights the practical uses of data processing and analysis in everyday life.

Written at a level that is accessible to students in all disciplines, Introduction to Environmental Management, Second Edition translates complex environmental issues into practical and understandable terms. The book provides students and practitioners an understanding of the regulations, pollutants, and waste management issues that can be applied in various related environmental fields and industries. This new edition is updated throughout and adds eleven new chapters, including coverage of water conservation, water toxins, measurement methods, desalination, industrial ecology, legal issues, and more. Features: Updated throughout and includes eleven all-new chapters Reviews the specialized literature on pollution prevention, sustainability, and the role of optimization in water treatment and related areas, as well as references for further reading Provides illustrative examples and case studies that complement the text throughout Includes ancillary exams and a solutions manual for adopting instructors This book serves as a complete teaching tool, offering a combination of insightful coverage, concise language, and convenient pedagogical features, and supplies practical guidance that will aid students and practitioners alike.

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