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The Data Model Resource Book, Volume 1 Springer Science & Business Media

This book is about constructing models from experimental data. It covers a range of topics, from statistical data prediction to Kalman filtering, from black-box model identification to parameter estimation, from spectral analysis to predictive control. Written for graduate students, this textbook offers an approach that has proven successful throughout the many years during which its author has taught these topics at his University. The book: Contains accessible methods explained step-by-step in simple terms Offers an essential tool useful in a variety of fields, especially engineering, statistics, and mathematics Includes an overview on random variables and stationary processes, as well as an introduction to discrete time models and matrix analysis Incorporates historical commentaries to put into perspective the developments that have brought the discipline to its current state Provides many examples and solved problems to complement the presentation and facilitate comprehension of the techniques presented

Flight Vehicle Aerodynamics Cambridge University Press

This book is designed to supplement standard texts and teaching material in the areas of differential equations in engineering such as in Electrical, Mechanical and Biomedical engineering. Emphasis is placed on the Boundary Value Problems that are often met in these fields. This keeps the the spectrum of the book rather focussed. The book has basically emerged from the need in the authors lectures on "Advanced Numerical Methods in Biomedical Engineering" at Yeditepe University and it is aimed to assist the students in solving general and application specific problems in Science and Engineering at upper-undergraduate and graduate level. Majority of the problems given in this book are self-contained and have varying levels of difficulty to encourage the student. Problems that deal with MATLAB simulations are particularly intended to guide the student to understand the nature and demystify theoretical aspects of these problems. Relevant references are included at the end of each chapter. Here one will also find large number of software that supplements this book in the form of MATLAB script (.m files). The name of the files used for the solution of a problem are indicated at the end of each corresponding problem statement. There are also some exercises left to students as homework assignments in the book. An outstanding feature of the book is the large number and variety of the solved problems that are included in it. Some of these problems can be found relatively simple, while others are more challenging and used for research projects. All solutions to the problems and script files included in the book have been tested using recent MATLAB software. The features and the content of this book will be most useful to the students studying in Engineering fields, at different levels of their education (upper undergraduate-graduate).

Why the West Fears Islam John Wiley & Sons

This book reviews current design paths for soft sensors, and guides readers in evaluating different choices. The book presents case studies resulting from collaborations between the authors and industrial partners. The solutions presented, some of which are implemented on-line in industrial plants, are designed to cope with a wide range of applications from measuring system backup and what-if analysis through real-time prediction for plant control to sensor diagnosis and validation.

Advanced Control and Supervision of Mineral Processing Plants John Wiley & Sons

The theme for the 2019 conference is Novel Computing Architectures. Papers will include discussions on the advent of Artificial Intelligence and the promise of quantum computing that are driving disruptive computing architectures; Neuromorphic chip designs on one hand, and Quantum Bits on the other, still in R&D, will introduce new computing circuitry and memory elements, novel materials, and different test methodologies. These novel computing architectures will require further innovation which is best achieved through a collaborative Failure Analysis community composed of chip manufacturers, tool vendors, and universities.

Computational Methods for Geodynamics Cambridge University Press

Jocelyne Cesari examines the idea that Islam might threaten the core values of the West through testimonies from Muslims in France, Germany, the United Kingdom, the Netherlands, and the US. Her book is an unprecedented exploration of Muslim religious and political life based on several years of field work in Europe and in the United States.

Power System Optimization Morgan Kaufmann

This book is the result of more than fifteen years of research. The study has been carried on, partly in libraries and town records, partly by conferences with descendants of potters and others familiar with their history, and partly by actual digging on the sites of potteries. The excavation method has proved most successful in showing what our New England potters were making at an early period now almost unrepresented by surviving specimens.

The Data Model Resource CD Addison-Wesley Professional

Written as both a textbook and a handy reference, this text deliberately avoids complex mathematics assuming only basic familiarity with geodynamic theory and calculus. Here, the authors have brought together the key numerical techniques for geodynamic modeling, demonstrations of how to solve problems including lithospheric deformation, mantle convection and the geodynamo. Building from a discussion of the fundamental principles of mathematical and numerical modeling, the text moves into critical examinations of each of the different techniques before concluding with a detailed analysis of specific geodynamic applications. Key differences between methods and their respective limitations are also discussed - showing readers when and how to apply a particular method in order to produce the most accurate results. This is an essential text for advanced courses on numerical and computational modeling in geodynamics and geophysics, and an invaluable resource for researchers looking to master cutting-edge techniques. Links to supplementary computer codes are available online.

Advanced VLSI Design and Testability Issues Springer

The method and plan of this dictionary of Jamaican English are basically the same as those of the Oxford English Dictionary, but oral sources have been extensively tapped in addition to detailed coverage of literature published in or about Jamaica since 1655. It contains information about the Caribbean and its dialects, and about Creole languages and general linguistic processes. Entries give the pronunciation, part-of-speech and usage of labels, spelling variants, etymologies and dated citations, as well as definitions. Systematic indexing indicates the extent to which the lexis is shared with other Caribbean countries.

Kernel Methods for Pattern Analysis ASM International

Publisher Description

Dictionary of Jamaican English Pearson Education India Explains the methods of comparison used, and discusses of the importance of comparative economic analysis.

Advance Data from Vital & Health Statistics of the National Center for Health Statistics Cambridge University Press

This volume is the first of its kind to provide a detailed, comprehensive treatment of the genealogical subgrouping of Semitic. Starting with the traditional, morphologic approach and then shifting to the pertinent lexical evidence, it covers key topics in the Semitic subgrouping debate, including the East/West dichotomy, the Central Semitic hypothesis, the Canaanite affiliation of Ugaritic, and the linguistic specificity of Modern South Arabia.

Logical Effort CRC Press

The International Conference on "Computational Intelligence in Data Mining" (ICCIDM), after three successful versions, has reached to its fourth version with a lot of aspiration. The best selected conference papers are reviewed and compiled to form this volume. The proceedings discusses the latest solutions, scientific results and methods in solving intriguing problems in the fields of data mining, computational intelligence, big data analytics, and soft computing. The volume presents a sneak preview into the strengths and weakness of trending applications and research findings in the field of computational intelligence and data mining along with related field.

Pudd'nhead Wilson and Those Extraordinary Twins John Wiley & Sons

The Data Model Resource Book arms you with a set of proven data models and data warehouse designs for the core functions shared by most businesses. You get a comprehensive set of detailed models for marketing and sales, human resources, inventory, professional services, order processing, billing, product delivery, work order management, budgeting, accounting, and more. The authors also show you how to quickly convert the logical data models into enterprise-wide data warehouses as well as data marts.

Monthly Treasury Statement of Receipts and Outlays of the United States Government for Period from John Wiley & Sons

New technologies have enabled us to collect massive amounts of data in many fields. However, our pace of discovering useful information and knowledge from these data falls far behind our pace of collecting the data. Data Mining: Theories, Algorithms, and Examples introduces and explains a comprehensive set of data mining algorithms from various data mining fields. The book reviews theoretical rationales and procedural details of data mining algorithms, including those commonly found in the literature and those presenting considerable difficulty, using small data examples to explain and walk through the algorithms. The book covers a wide range of data mining algorithms, including those commonly found in data mining literature and those not fully covered in most of existing literature due to their considerable difficulty. The book presents a list of software packages that support the data mining algorithms, applications of the data mining algorithms with references, and exercises, along with the solutions manual and PowerPoint slides of lectures. The author takes a practical approach to data mining algorithms so that the data patterns produced can be fully interpreted. This approach enables students to understand theoretical and operational aspects of data mining algorithms and to manually execute the algorithms for a thorough understanding of the data patterns produced by them.

Intelligent Computing Theories and Application Springer This book facilitates the VLSI-interested individuals with not only in-depth knowledge, but also the broad aspects of it by explaining its applications in different fields, including image processing and biomedical. The deep understanding of basic concepts gives you the power to develop a new application aspect, which is very well taken care of in this book by using simple language in explaining the concepts. In the VLSI world, the importance of hardware description languages cannot be ignored, as the designing of such dense and complex circuits is not possible without them. Both Verilog and VHDL languages are used here for designing. The current needs of high-performance integrated circuits (ICs) including low power devices and new emerging materials, which can play a very important role in achieving new functionalities, are the most interesting part of the book. The testing of VLSI circuits becomes more crucial than the designing of the circuits in this nanometer technology era. The role of fault simulation algorithms is very well explained, and its implementation using Verilog is the key aspect of this book. This book is well organized into 20 chapters. Chapter 1 emphasizes on uses of FPGA on various image processing and biomedical applications. Then, the descriptions enlighten the basic understanding of digital design from the perspective of HDL in Chapters 2–5. The performance enhancement with alternate material or geometry for silicon-based FET designs is focused in Chapters 6 and 7. Chapters 8 and 9 describe the study of bimolecular interactions with biosensing FETs. Chapters 10–13 deal with advanced FET structures available in various shapes, materials such as nanowire, HFET, and their comparison in terms of device performance metrics calculation. Chapters 14–18 describe different application-specific VLSI design techniques and challenges for analog and digital circuit designs. Chapter 19 explains the VLSI testability issues with the description of simulation and its categorization into logic and fault simulation for test pattern generation using Verilog HDL. Chapter 20 deals with a secured VLSI design with hardware obfuscation by hiding the IC's structure and function, which makes it much more difficult to reverse engineer.

Economic Systems CRC Press

This user-friendly reference for students and researchers presents the basic mathematical theory,

before introducing modelling of key geodynamic processes.

Model Identification and Data Analysis Read Books Ltd
An original look from a microeconomic perspective for power system optimization and its application to electricity markets
Presents a new and systematic viewpoint for power system optimization inspired by microeconomics and game theory
A timely and important advanced reference with the fast growth of smart grids
Professor Chen is a pioneer of applying experimental economics to the electricity market trading mechanism, and this work brings together the latest research
A companion website is available
Edit

Soft Sensors for Monitoring and Control of Industrial Processes Springer

This is a textbook which gradually introduces the student to the statistical mechanical study of the different phases of matter and to the phase transitions between them. Throughout, only simple models of both ordinary and soft matter are used but these are studied in full detail. The subject is developed in a pedagogical manner, starting from the basics, going from the simple ideal systems to the interacting systems, and ending with the more modern topics. The textbook provides the student with a complete overview, intentionally at an introductory level, of the theory of phase transitions. All equations and deductions are included.

Equilibrium Statistical Physics BRILL

The book tries to briefly introduce the diverse literatures in the field of fractional order signal processing which is becoming an emerging topic among an interdisciplinary community of researchers. This book is aimed at postgraduate and beginning level research scholars who would like to work in the field of Fractional Order Signal processing (FOSP). The readers should have preliminary knowledge about basic signal processing techniques. Prerequisite knowledge of fractional calculus is not essential and is exposted at relevant places in connection to the appropriate signal processing topics. Basic signal processing techniques like filtering, estimation, system identification, etc. in the light of fractional order calculus are presented along with relevant application areas. The readers can easily extend these concepts to varied disciplines like image or speech processing, pattern recognition, time series forecasting, financial data analysis and modeling, traffic modeling in communication channels, optics, biomedical signal processing, electrochemical applications and many more. Adequate references are provided in each category so that the researchers can delve deeper into each area and broaden their horizon of understanding. Available MATLAB tools to simulate FOSP theories are also introduced so that the readers can apply the theoretical concepts right-away and gain practical insight in the specific domain.

Introduction to Signal Processing Walter de Gruyter GmbH & Co KG

An overview of the physics, concepts, theories, and models underlying the discipline of aerodynamics. This book offers a general overview of the physics, concepts, theories, and models underlying the discipline of aerodynamics. A particular focus is the technique of velocity field representation and modeling via source and vorticity fields and via their sheet, filament, or point-singularity idealizations. These models provide an intuitive feel for aerodynamic flow-field behavior and are the basis of aerodynamic force analysis, drag decomposition, flow interference estimation, and other important applications. The models are applied to both low speed and high speed flows. Viscous flows are also covered, with a focus on understanding boundary layer behavior and its influence on aerodynamic flows. The book covers some topics in depth while offering introductions and summaries of others. Computational methods are indispensable for the practicing aerodynamicist, and the book covers several computational methods in detail, with a focus on vortex lattice and panel methods. The goal is to improve understanding of the physical models that underlie such methods. The book also covers the aerodynamic models that describe the forces and moments on maneuvering aircraft, and provides a good introduction to the concepts and methods used in flight dynamics. It also offers an introduction to unsteady flows and to the subject of wind tunnel measurements. The book is based on the MIT graduate-level course "Flight Vehicle Aerodynamics" and has been developed for use not only in conventional classrooms but also in a massive open online course (or MOOC) offered on the pioneering MOOC platform edX. It will also serve as a valuable reference for professionals in the field. The text assumes that the reader is well versed in basic physics and vector calculus, has had some exposure to basic

fluid dynamics and aerodynamics, and is somewhat familiar with aerodynamics and aeronautics terminology.