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RORY MAURICE

Formal Methods and Software Engineering Springer Nature

This book was first published in 1983. It provides a comprehensive overview of irrigation technologies, techniques and economics, tailored to a multitude of different crops.

Practical Tools for Designing and Weighting Survey Samples IOS Press

This book constitutes the refereed proceedings of the 29th IFIP WG 6.1 International Conference on Testing Software and Systems ICTSS 2017, held in St. Petersburg, Russia, in October 2017. The 18 full papers and 4 short papers presented were carefully reviewed and selected from 41 submissions. The topics of the volume cover model based testing; test derivation and monitoring; fault localization and system testing including real time systems.

Performance Measurement in Corporate Governance Cengage Learning

Complex problem solving (CPS) and related topics such as dynamic decision-making (DDM) and complex dynamic control (CDC) represent multifaceted psychological phenomena. In abroad sense, CPS encompasses learning, decision-making, and acting in complex and dynamic situations. Moreover, solutions to problems that people face in such situations are often generated in teams or groups. This adds another layer of complexity to the situation itself because of the emerging issues that arise from the social dynamics of group interactions. This framing of CPS means that it is not a single construct that can be measured by using a particular type of CPS task (e.g. minimal complex system tests), which is a view taken by the psychometric community. The proposed approach taken here is that because CPS is multifaceted, multiple approaches need to be taken to fully capture and understand what it is and how the different cognitive processes associated with it complement each other. Thus, this Research Topic is aimed at showcasing the latest work in the fields of CPS, as well as DDM and CDC that takes a holistic approach to investigating and theorizing about these abilities. The collection of articles encompasses conceptual approaches as well as experimental and correlational studies involving established or new tools to examine CPS, DDM and CDC. This work contributes to answering questions about what strategies and what general knowledge can be transferred from one type of complex and dynamic situation to another, what learning conditions result in transferable knowledge and skills, and how these features can be trained.

The Linear Ordering Problem Brooks/Cole

The goal of this book is to put an array of tools at the fingertips of students, practitioners, and researchers by explaining approaches long used by survey statisticians, illustrating how existing software can be used to solve survey problems, and developing some specialized software where needed. This volume serves at least three audiences: (1) students of applied sampling techniques; (2) practicing survey statisticians applying concepts learned in theoretical or applied sampling courses; and

(3) social scientists and other survey practitioners who design, select, and weight survey samples. The text thoroughly covers fundamental aspects of survey sampling, such as sample size calculation (with examples for both single- and multi-stage sample design) and weight computation, accompanied by software examples to facilitate implementation. Features include step-by-step instructions for calculating survey weights, extensive real-world examples and applications, and representative programming code in R, SAS, and other packages. Since the publication of the first edition in 2013, there have been important developments in making inferences from nonprobability samples, in address-based sampling (ABS), and in the application of machine learning techniques for survey estimation. New to this revised and expanded edition: • Details on new functions in the PracTools package • Additional machine learning methods to form weighting classes • New coverage of nonlinear optimization algorithms for sample allocation • Reflecting effects of multiple weighting steps (nonresponse and calibration) on standard errors • A new chapter on nonprobability sampling • Additional examples, exercises, and updated references throughout Richard Valliant, PhD, is Research Professor Emeritus at the Institute for Social Research at the University of Michigan and at the Joint Program in Survey Methodology at the University of Maryland. He is a Fellow of the American Statistical Association, an elected member of the International Statistical Institute, and has been an Associate Editor of the Journal of the American Statistical Association, Journal of Official Statistics, and Survey Methodology. Jill A. Dever, PhD, is Senior Research Statistician at RTI International in Washington, DC. She is a Fellow of the American Statistical Association, Associate Editor for Survey Methodology and the Journal of Official Statistics, and an Assistant Research Professor in the Joint Program in Survey Methodology at the University of Maryland. She has served on several panels for the National Academy of Sciences and as a task force member for the American Association of Public Opinion Research's report on nonprobability sampling. Frauke Kreuter, PhD, is Professor and Director of the Joint Program in Survey Methodology at the University of Maryland, Professor of Statistics and Methodology at the University of Mannheim, and Head of the Statistical Methods Research Department at the Institute for Employment Research (IAB) in Nürnberg, Germany. She is a Fellow of the American Statistical Association and has been Associate Editor of the Journal of the Royal Statistical Society, Journal of Official Statistics, Sociological Methods and Research, Survey Research Methods, Public Opinion Quarterly, American Sociological Review, and the Stata Journal. She is founder of the International Program for Survey and Data Science and co-founder of the Coleridge Initiative.

Complex-Valued Neural Networks: Utilizing High-Dimensional Parameters Cengage Learning

This two-volume book provides an insight into the 10th International Conference on Soft Computing for Problem Solving (SocProS 2020). This international conference is a joint technical collaboration of Soft Computing Research Society and Indian

Institute of Technology Indore. The book presents the latest achievements and innovations in the interdisciplinary areas of soft computing. It brings together the researchers, engineers and practitioners to discuss thought-provoking developments and challenges, in order to select potential future directions. It covers original research papers in the areas including but not limited to algorithms (artificial immune system, artificial neural network, genetic algorithm, genetic programming and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). The book will be beneficial for young as well as experienced researchers dealing across complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

Practical Management Science Springer Science & Business Media

This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of *Theory and Applications of Satisfiability Testing - SAT 2020* IGI Global

Die Globalisierung und Virtualisierung von Geschäftsbeziehungen vergrößert die Bedeutung und die Komplexität logistischer Herausforderungen. Das Management logistischer Netzwerke wird zu einem wesentlichen Wettbewerbsfaktor für Unternehmen. Das Buch wie die gleichnamige Tagung (September 2009) haben zum Ziel, den internationalen Gedankenaustausch und die Diskussion zwischen Wissenschaft und Praxis gezielt zu fördern, damit Strategien, Methoden und Werkzeuge entwickelt werden können, die es ermöglichen, den wachsenden Anforderungen gerecht zu werden.

Rapid Prototyping and Engineering Applications John Wiley & Sons

SUCCESS IN BUSINESS WITH MICROSOFT OFFICE EXCEL 2013 prepares your students to solve business problems by moving beyond the basic point and click skills to think critically about realistic business situations. When students combine software analysis with their own decision making abilities, they are more likely meet any business challenge with success. The Succeeding in Business Series emphasizes problem-solving, critical thinking, and analysis - challenging students to find efficient and effective solutions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Electronics Problem Solver (REA) CRC Press

Despite the ample number of articles on parallel-vector computational algorithms published over the last 20 years, there is a lack of texts in the field customized for senior undergraduate and graduate engineering research. Parallel-Vector Equation Solvers for Finite Element Engineering Applications aims to fill this gap, detailing both the theoretical development and important implementations of equation-solution algorithms. The mathematical background necessary to understand their inception balances well with descriptions of their practical uses. Illustrated with a number of state-of-the-art FORTRAN codes developed as examples for the book, Dr. Nguyen's text is a perfect choice for instructors and researchers alike.

Ships and Offshore Structures XIX Springer Science & Business Media

This book gathers peer-reviewed contributions submitted to the 21st European Conference on Mathematics for Industry, ECMI 2021, which was virtually held online, hosted by the University of

Wuppertal, Germany, from April 13th to April 15th, 2021. The works explore mathematics in a wide variety of applications, ranging from problems in electronics, energy and the environment, to mechanics and mechatronics. Topics covered include: Applied Physics, Biology and Medicine, Cybersecurity, Data Science, Economics, Finance and Insurance, Energy, Production Systems, Social Challenges, and Vehicles and Transportation. The goal of the European Consortium for Mathematics in Industry (ECMI) conference series is to promote interaction between academia and industry, leading to innovations in both fields. These events have attracted leading experts from business, science and academia, and have promoted the application of novel mathematical technologies to industry. They have also encouraged industrial sectors to share challenging problems where mathematicians can provide fresh insights and perspectives. Lastly, the ECMI conferences are one of the main forums in which significant advances in industrial mathematics are presented, bringing together prominent figures from business, science and academia to promote the use of innovative mathematics in industry.

Spreadsheet Modeling & Decision Analysis: A Practical Introduction to Business Analytics Springer Science & Business Media

Written by an innovator in teaching spreadsheets and a highly regarded leader in business analytics, Cliff Ragsdale's SPREADSHEET MODELING AND DECISION ANALYSIS: A PRACTICAL INTRODUCTION TO BUSINESS ANALYTICS, 8E helps readers master important spreadsheet and business analytics skills. Readers find everything needed to become proficient in today's most widely used business analytics techniques using Microsoft Office Excel 2016. Learning to make effective decisions in today's business world takes training and experience. Author Cliff Ragsdale guides learners through the skills needed, using the latest Excel for Windows. Readers apply what they've learned to real business situations with step-by-step instructions and annotated screen images that make examples easy to follow. The World of Management Science sections further demonstrates how each topic applies to a real company. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Testing Software and Systems kassel university press GmbH

In the global knowledge economy, corporate governance, organisational behaviour and performance of the supply chain are becoming increasingly important aspects of the evaluation of an enterprise. The subject of this book is the development of a contemporary organisation behaviour performance measurement (OBPM) model for enterprises in the modern economy. The fields of organisation behaviour and supply chain management are integrated with an Open Socio-Technical Systems theory of management and the application of Operations Research to corporate governance for the measurement of organisation performance. This book thereby offers a new and innovative quantitative approach to qualitative concepts of corporate performance measurement and makes a significant contribution to the fields of management theory, supply chain management as well as operations research.

Benchmarking for Performance Evaluation Springer Science & Business Media

This book constitutes the refereed proceedings of the 21st International Conference on Advanced Information Systems Engineering, CAiSE 2009, held in Amsterdam, The Netherlands, on June 8-12, 2009. The 36 papers presented in this book together with 6 keynote papers were carefully reviewed and selected from 230 submissions. The topics covered are model driven engineering, conceptual modeling, quality and data

integration, goal-oriented requirements engineering, requirements and architecture, service orientation, Web service orchestration, value-driven modeling, workflow, business process modeling, and requirements engineering.

Business Analytics: Data Analysis & Decision Making

Springer Science & Business Media

Consisting of two parts, this book presents papers describing publicly available stochastic programming systems that are operational. It presents a diverse collection of application papers in areas such as production, supply chain and scheduling, gaming, environmental and pollution control, financial modeling, telecommunications, and electricity.

Parallel-Vector Equation Solvers for Finite Element Engineering Applications

CRC Press

This book constitutes the proceedings of the 21st International Conference on Formal Engineering Methods, ICFEM 2019, held in Shenzhen, China, in November 2019. The 28 full and 8 short papers presented in this volume were carefully reviewed and selected from 94 submissions. They deal with the recent progress in the use and development of formal engineering methods for software and system design and record the latest development in formal engineering methods.

Applications of Stochastic Programming

CRC Press

Since the publication of the first edition, several Additive Manufacturing technologies have been invented, and many new terminologies have been formalized. Each chapter has been brought up-to-date so that this book continues with its coverage of engineering procedures and the application of modern prototyping technologies, such as Additive Manufacturing (AM) and Virtual Prototyping (VP) that quickly develops new products with lower costs and higher quality. The examples, practice exercises, and case studies have also been updated. Features Gears toward rapid product prototyping technologies Presents a wide spectrum of prototyping tools and state-of-the-art additive manufacturing technologies Explains how to use these rapid product prototyping tools in the development of products Includes examples and case studies from the industry Provides exercises in each chapter along with solutions

Waste Input-Output Analysis

Springer

Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. All your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. Nothing remotely as comprehensive or as helpful exists in their subject anywhere. Perfect for undergraduate and graduate studies. Here in this highly useful reference is the finest overview of electronics currently available, with hundreds of electronics problems that cover everything from circuits and transistors to amplifiers and generators. Each problem is clearly solved with step-by-step detailed solutions. DETAILS - The PROBLEM SOLVERS are unique - the ultimate in study guides. - They are ideal for helping students cope with the toughest subjects. - They greatly simplify study and learning tasks. - They enable students to come to grips with difficult problems by showing them the way, step-by-step, toward solving problems. As a result, they save hours of frustration and time spent on groping for answers and understanding. - They cover material ranging from the elementary to the advanced in each subject. - They work exceptionally well with any text in its field. - PROBLEM SOLVERS are available in 41 subjects. - Each PROBLEM SOLVER is prepared by supremely knowledgeable experts. - Most are over 1000 pages. - PROBLEM SOLVERS are not meant to be read cover to cover. They offer whatever may be needed at a given time. An

excellent index helps to locate specific problems rapidly. TABLE OF CONTENTS Introduction Chapter 1: Fundamental Semiconductor Devices Properties of Semiconductors The p-n Junction Junction-Diode Characteristics Bipolar Transistor Theory Bipolar Transistor Characteristics Field-Effect Transistors Chapter 2: Analog Diode Circuits Clippers and Clampers Rectifiers and Filters Synthesis of Volt-Ampere Transfer Functions Zener Diode Voltage Regulators Miscellaneous Diode Circuits Chapter 3: Basic Transistor Circuits Inverter Common-Emitter Amplifier Emitter-Follower Common-Base Amplifier Bias Stability and Compensation Miscellaneous BJT Circuits Common-Source JFET Amplifier Common-Drain JFET Amplifier MOSFET Amplifiers Chapter 4: Small-Signal Analysis Amplifier Concepts and Hybrid Parameters Common-Emitter Amplifier Emitter-Follower Common-Base Amplifier Common-Source JFET Amplifier Common-Drain JFET Amplifier Common-Gate JFET Amplifier MOSFET Circuit Analysis Noise Chapter 5: Multiple Transistor Circuits Cascading of Stages Darlington Configuration Difference Amplifier Direct-Coupled Amplifiers Other Configurations Chapter 6: Power Amplifiers Class A Class B Push-Pull Class AB Push-Pull Complementary Symmetry Push-Pull Chapter 7: Feedback Circuits Feedback Concepts Gain and Impedance of Feedback Amplifiers Feedback Analysis and Design Stability of Feedback Circuits Regulated Power Supplies Chapter 8: Frequency Response of Amplifiers Low Frequency Response of BJT Amplifiers Low Frequency Response of FET Amplifiers High Frequency Behavior of CE Amplifiers High Frequency Behavior of CC and CB Amplifiers High Frequency Behavior of FET Amplifiers Multistage Amplifiers At High Frequencies The Gain Bandwidth Product Frequency Response of Miscellaneous Circuits Transistor Switch Chapter 9: Tuned Amplifiers and Oscillators Single-Tuned Amplifiers Double-Tuned Amplifiers Synchronously-Tuned Amplifiers Stagger-Tuned Amplifiers Other Tuned Amplifiers Phase-Shift Oscillators Colpitts Oscillators Hartley Oscillators Other Oscillators Chapter 10: Operational Amplifiers Basic Op-Amp Characteristics Frequency Response of Op-Amps Stability and Compensation Integrators and Differentiators Mathematical Applications of Op-Amps Active Filters The Comparator Miscellaneous Op-Amp Applications Chapter 11: Timing Circuits Waveform Generators Free-Running Multivibrators Monostable Multivibrators Schmitt Trigger Sweep Circuits Miscellaneous Circuits Chapter 12: Other Electronic Devices and Circuits Tubes SCR and TRIAC Circuits Unijunction Transistors Tunnel Diodes Four-Layer Diodes Light-Controlled Devices Miscellaneous Circuits D/A and A/D Converters Chapter 13: Fundamental Digital Circuits Diode Logic (DL) Gates Resistor-Transistor Logic (RTL) Gates Diode-Transistor Logic (DTL) Gates Transistor-Transistor Logic (TTL) Gates Emitter-Coupled Logic (ECL) Gates MOSFET Logic Gates Chapter 14: Combinational Digital Circuits Boolean Algebra Logic Analysis Logic Synthesis Encoders, Multiplexers, and ROM's Chapter 15: Sequential Digital Circuits Flip-Flops Synthesis of Sequential Circuits Analysis of Sequential Circuits Counters Shift Registers Appendix Index WHAT THIS BOOK IS FOR Students have generally found electronics a difficult subject to understand and learn. Despite the publication of hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of electronics continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of electronics terms also contribute to the difficulties of mastering the subject. In a study of electronics, REA found the following basic reasons underlying the inherent difficulties of electronics: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and principles

involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by an electronics professional who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve pro

[Logistik Management](#) Springer

Systems are subject to faults in their components, affecting their overall behaviour. This work addresses such problems developing models with multi-valued logics that it formalizes and generalizes

to multiple faults. Such logics extend Boolean logic by encoding dependencies on faults.

[Spreadsheet Modeling and Decision Analysis: A Practical Introduction to Business Analytics](#) Springer Science & Business Media

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.

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[Soft Computing for Problem Solving](#) Springer Science & Business Media

This book presents the conceptual framework underlying the fifth cycle of PISA, which covers reading, science and this year's focus: mathematical literacy, along with problem solving and financial literacy.