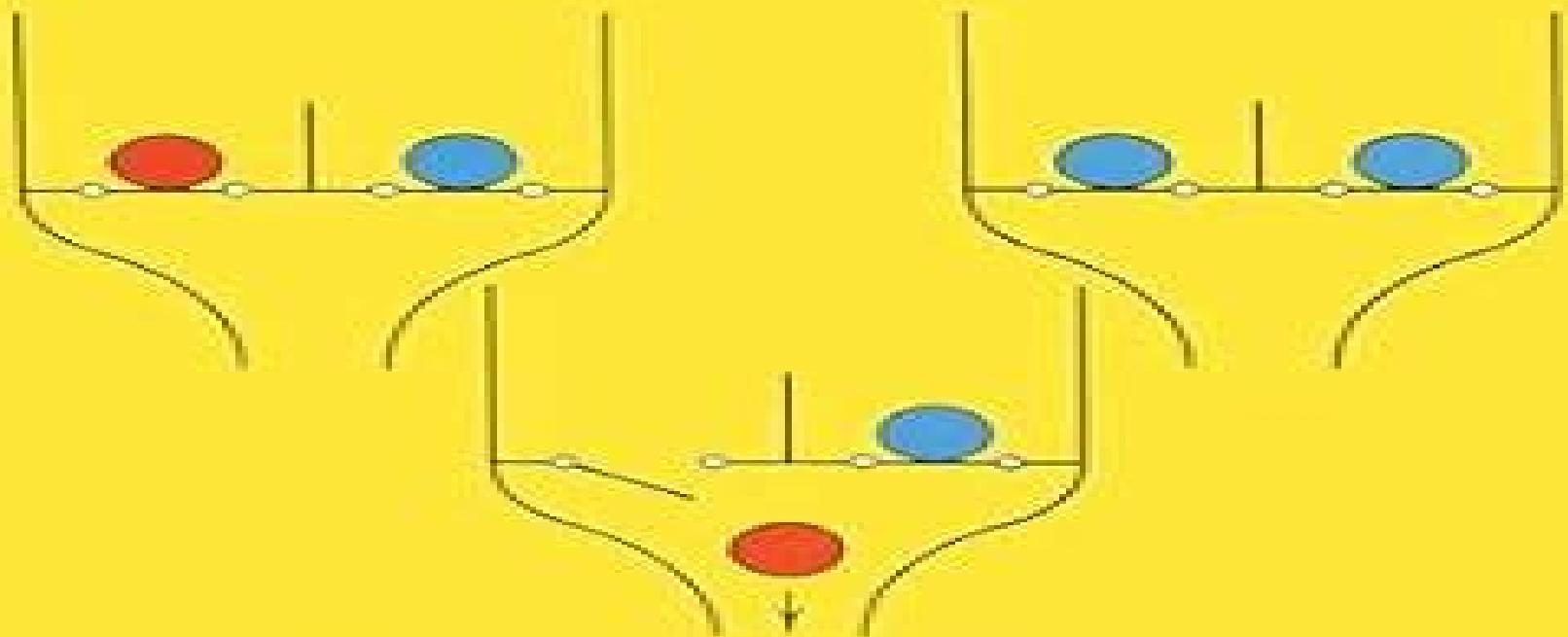


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most impressive non technical account available and a fascinating introduction to the subject for laymen An uncommonly good study Pierce s volume presents the most satisfying discussion to be found Scientific American *Information Theory* Stanford Goldman,1953 *Information Theory* Marcelo S. Alencar,2014-11-30 During the last decade we have witnessed rapid developments of computer networks and Internet technologies along with dramatic improvements in the processing power of personal computers These developments make Interactive Distance Education a reality By designing and deploying distributed and collaborative applications running on computers disseminated over the Internet distance educators can reach remote learners overcoming the time and distance constraints Besides the necessary theoretical base provided by lectures and written materials hands on experience provided by physical laboratories is a vital part for engineering education It helps engineering students become effective professionals Such instruction not only provides the students with the knowledge of the physical equipment but also adds the important dimension of group work and collaboration However laboratories are expensive to setup to maintain and provide long hours of daily staffing Due to budget limitations many universities and colleges can provide only limited access to such physical equipment Therefore it is imperative to enable remote access to a physical laboratory either as part of an on site or distance learning course

Perspectives on Logics for Data-driven Reasoning Hykel Hosni,Jürgen Landes,2025-01-21 This book calls for a rethinking of logic as the core methodological tool for scientific reasoning in the context of a steadily increasing emphasis on data centered science To do so it provides a state of the art presentation of the role logic can have in making the most of the current opportunities while making explicit the key challenges opened up by the data driven age of scientific research Particular attention is given to the following four core fields and applications Reasoning with correlations medical life science applications logics for statistical inference machine learning and societal applications thereof reasoning with evidence defining good evidence causal reasoning forensic reasoning The book collects contributions from key logicians methodologists and scientists This multidisciplinary perspective benefits both scientists and logicians interested in data driven science Scientists are introduced to logics that go beyond classical and thus are applicable to reasoning with data Logicians have a change to focus on the potential applications of their methods and techniques to pressing scientific problems This book is therefore of interest to scientists and logicians working on data centered science

The Mystery of Market Movements Niklas Hageback,2014-03-25 A quantifiable framework for unlocking the unconscious forces that shape markets There has long been a notion that subliminal forces play a great part in causing the seemingly irrational financial bubbles which conventional economic theory again and again fails to explain However these forces sometimes labeled animal spirits or irrational exuberance have remained elusive until now The Mystery of Market Movements provides you with a methodology to timely predict and profit from changes in human investment behaviour based on the workings of the collective unconscious Niklas Hageback draws in on one of psychology s most influential ideas archetypes to explain how they form investor perceptions and can be predicted and turned into profit

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Model Calibration and Parameter Estimation Ne-Zheng Sun,Alexander Sun,2015-07-01 This three part book provides a comprehensive and systematic introduction to these challenging topics such as model calibration parameter estimation reliability assessment and data collection design Part 1 covers the classical inverse problem for parameter estimation in both deterministic and statistical frameworks Part 2 is dedicated to system identification hyperparameter estimation and model dimension reduction and Part 3 considers how to collect data and construct reliable models for prediction and decision making For the first time topics such as multiscale inversion stochastic field parameterization level set method machine learning global sensitivity analysis data assimilation model uncertainty quantification robust design and goal oriented modeling are systematically described and summarized in a single book from the perspective of model inversion and elucidated with numerical examples from environmental and water resources modeling Readers of this book will not only learn basic concepts and methods for simple parameter estimation but also get familiar with advanced methods for modeling complex systems Algorithms for mathematical tools used in this book such as numerical optimization automatic differentiation adaptive parameterization hierarchical Bayesian metamodeling Markov chain Monte Carlo are covered in details This book can be used as a reference for graduate and upper level undergraduate students majoring in environmental engineering hydrology and geosciences It also serves as an essential reference book for professionals such as petroleum engineers mining engineers chemists mechanical engineers biologists biology and medical engineering applied mathematicians and others who perform mathematical modeling

Cyber-physical Systems Pedro H. J. Nardelli,2022-05-17 CYBER PHYSICAL SYSTEMS Provides a unique general theory of cyber physical systems focusing on how physical data and decision processes are articulated as a complex whole Cyber physical systems CPS operate in complex environments systems with integrated physical and computational capabilities With the ability to interact with humans through variety of modalities cyber physical systems are

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Mathematical Foundations of Data Science Using R Frank Emmert-Streib, Salissou Moutari, Matthias Dehmer, 2022-10-24 The aim of the book is to help students become data scientists Since this requires a series of courses over a considerable period of time the book intends to accompany students from the beginning to an advanced understanding of the knowledge and skills that define a modern data scientist The book presents a comprehensive overview of the mathematical foundations of the programming language R and of its applications to data science

Digital Urban Modeling and Simulation Stefan Müller Arisona, Gideon Aschwanden, Jan Halatsch, Peter Wonka, 2012-07-06 This book is thematically positioned at the intersections of Urban Design Architecture Civil Engineering and Computer Science and it has the goal to provide specialists coming from respective fields a multi angle overview of state of the art work currently being carried out It addresses both newcomers who wish to obtain more knowledge about this growing area of interest as well as established researchers and practitioners who want to keep up to date In terms of organization the volume starts out with chapters looking at the domain at a wide angle and then moves focus towards technical viewpoints and approaches

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edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book's tradition of clear thought provoking instruction Readers are provided once again with an instructive mix of mathematics physics statistics and information theory All the essential topics in information theory are covered in detail including entropy data compression channel capacity rate distortion network information theory and hypothesis testing The authors provide readers with a solid understanding of the underlying theory and applications Problem sets and a telegraphic summary at the end of each chapter further assist readers The historical notes that follow each chapter recap the main points The Second Edition features Chapters reorganized to improve teaching 200 new problems New material on source coding portfolio theory and feedback capacity Updated references Now current and enhanced the Second Edition of Elements of Information Theory remains the ideal textbook for upper level undergraduate and graduate courses in electrical engineering statistics and telecommunications

Mathematical Principles of the Internet, Volume 1 Nirdosh Bhatnagar, 2018-11-20 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead they cover a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering

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