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Problems and Snapshots from the World of Probability Gunnar Blom 2012-12-06 We, the authors of this book, are three ardent devotees of chance, or some what more precisely, of discrete probability. When we were collecting the material, we felt that one special pleasure of the field lay in its evocation of an earlier age: many of our 'probabilistic forefathers' were dexterous solvers of discrete problems. We hope that this pleasure will be transmitted to the readers. The first problem-book of a similar kind as ours is perhaps Mosteller's well-known Fifty Challenging Problems in Probability (1965). Possibly, our book is the second. The book contains 125 problems and snapshots from the world of prob ability. A 'problem' generally leads to a question with a definite answer. A 'snapshot' is either a picture or a bird's-eye view of some probabilistic field. The selection is, of course, highly subjective, and we have not even tried to cover all parts of the subject systematically. Limit theorems appear only seldom, for otherwise the book would have become unduly large. We want to state emphatically that we have not written a textbook in probability, but rather a book for browsing through when occupying an easy-chair. Therefore, ideas and results are often put forth without a machinery of formulas and derivations; the conscientious readers, who want to penetrate the whole clockwork, will soon have to move to their desks and utilize appropriate tools.

Forthcoming Books Rose Army 1989-09

Shadow Education Mark Bray 2012-05-01 In all parts of Asia, households devote considerable expenditures to private supplementary tutoring. This tutoring may contribute to students' achievement, but it also maintains and exacerbates social inequalities, diverts resources from other uses, and can contribute to inefficiencies in education systems. Such tutoring is widely called shadow education, because it mimics school systems. As the curriculum in the school system changes, so does the shadow. This study documents the scale and nature of shadow education in different parts of the region. Shadow education has been a major phenomenon in East Asia and it has far-reaching economic and social implications.

Modern Physics Paul Allen Tipler 1978 For the intermediate-level course, the Fifth Edition of this widely used text takes modern physics textbooks to a higher level. With a flexible approach to accommodate the various ways of teaching the course (both one- and two-term tracks are easily covered), the authors recognize the audience and its need for updated coverage, mathematical rigor, and features to build and support student understanding. Continued are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition. Enhancements include a streamlined approach to nuclear physics, thoroughly revised and updated coverage on particle physics and astrophysics, and a review of the essential Classical Concepts important to students studying Modern Physics.

Mathematical Methods in Quantum Mechanics Gerald Teschl 2009 Quantum mechanics and the theory of operators on Hilbert space have been deeply linked since their beginnings in the early twentieth century. States of a quantum system correspond to certain elements of the configuration space and observables correspond to certain operators on the space. This book is a brief, but self-contained, introduction to the mathematical methods of quantum mechanics, with a view towards applications to Schrodinger operators. Part 1 of the book is a concise introduction to the spectral theory of unbounded operators. Only those topics that will be needed for later applications are covered. The spectral theorem is a central topic in this approach and is introduced at an early stage. Part 2 starts with the free Schrodinger equation and computes the free resolvent and time evolution. Position, momentum, and angular momentum are discussed via algebraic methods. Various mathematical methods are developed, which are then used to compute the spectrum of the hydrogen atom. Further topics include the nondegeneracy of the ground state, spectra of atoms, and scattering theory. This book serves as a self-contained introduction to spectral theory of unbounded operators in Hilbert space with full proofs and minimal prerequisites: Only a solid knowledge of advanced calculus and a one-semester introduction to complex analysis are required. In particular, no functional analysis and no Lebesgue integration theory are assumed. It develops the mathematical tools necessary to prove some key results in nonrelativistic quantum mechanics. Mathematical Methods in Quantum Mechanics is intended for beginning graduate students in both mathematics and physics and provides a solid foundation for reading more advanced books and current research literature. It is well suited for self-study and includes numerous exercises (many with hints).

Wind Energy Explained James F. Manwell 2002-06-21 This textbook is intended to provide an introduction to the cross-disciplinary field of wind engineering. It includes end-of-chapter tutorial sections (solutions manual available) and combines both academic and industrial experience.

Spiritual, Religious, and Faith-Based Practices in Chronicity Andrew R. Hatala 2021-09-01 This book explores how people draw upon spiritual, religious, or faith-based practices to support their mental wellness amidst forms of chronicity. From diverse global contexts and spiritual perspectives, this volume critically examines several chronic conditions, such as psychosis, diabetes, depression, oppressive forces of colonization and social marginalization, attacks of spirit possession, or other forms of persistent mental duress. As an inter- and transdisciplinary collection, the chapters include innovative ethnographic observations and over 300 in-depth interviews with care providers and individuals living in chronicity, analyzed primarily from the phenomenological and hermeneutic meaning-making traditions. Overall, this book depicts a modern global era in which spirituality and religion maintain an important role in many peoples' lives, underscoring a need for increased awareness, intersectoral collaboration, and practical training for varied care providers. This book will be of interest to scholars of religion and health, the sociology and psychology of religion, medical and psychological anthropology, religious studies, and global health studies, as well as applied health and mental health professionals in psychology, social work, physical and occupational therapy, cultural psychiatry, public health, and medicine.

Introduction to Probability Charles Miller Grinstead 2012-10 This text is designed for an introductory probability course at the university level for sophomores, juniors, and seniors in mathematics, physical and social sciences, engineering, and computer science. It presents a thorough treatment of ideas and techniques necessary for a firm understanding of the subject. The text is also recommended for use in discrete probability courses. The material is organized so that the discrete and continuous probability discussions are presented in a separate, but parallel, manner. This organization does not emphasize an overly rigorous or formal view of probability and therefore offers some strong pedagogical value. Hence, the discrete discussions can sometimes serve to motivate the more abstract continuous probability discussions. Features: Key ideas are developed in a somewhat leisurely style, providing a variety of interesting applications to probability and showing some nonintuitive ideas. Over 600 exercises provide the opportunity for practicing skills and developing a sound understanding of ideas. Numerous historical comments deal with the development of discrete probability. The text includes many computer programs that illustrate the algorithms or the methods of computation for important problems. The book is a beautiful introduction to probability theory at the beginning level. The book contains a lot of examples and an easy development of theory without any sacrifice of rigor, keeping the abstraction to a minimal level. It is indeed a valuable addition to the study of probability theory. --Zentralblatt MATH

Resources in Education 1990-02

Practical Meteorology Roland Stull 2018 A quantitative introduction to atmospheric science for students and professionals who want to understand and apply basic meteorological concepts but who are not ready for calculus.

General Chemistry Darrell D. Ebbing 1999-01-01

Elementary Topology O. Ya. Viro, O. A. Ivanov, N. Yu. Netsvetaev, V. M. Kharlamov This text contains a detailed introduction to general topology and an introduction to algebraic topology via its most classical and elementary segment. Proofs of theorems are separated from their formulations and are gathered at the end of each chapter, making this book appear like a problem book and also giving it appeal to the expert as a handbook. The book includes about 1,000 exercises.

School Leadership - International Perspectives Stephan Huber 2009-12-24 Recent research into school effectiveness has corroborated the theory that the school leader plays a pivotal role making their school a successful institution, and is most often cited as the key factor in a school's development. Reflecting the importance it is given in the today's education landscape, this book explores the latest trends in school leadership from both theoretical and practical perspectives. Each chapter provides insight into an aspect of current research, with detailed case studies coming from as far afield as Hong Kong and Canada. In the context of the ever-increasing burden of responsibility placed on education management to safeguard and enhance the quality of education they provide, school leadership is now a core concern of policy makers. In addition, most countries are undertaking fundamental education reforms that will have a major influence on the nature of school leadership. Offering the most up-to-date research on this central issue, this book will both inform and shape the debate.

Bibliographic Guide to Education 1987

The British National Bibliography Arthur James Wells 1998

General Chemistry Donald Allan McQuarrie 2011 "Atoms First seems to be the flavor of the year in chemistry textbooks, but many of them seem to be little more than rearrangement of the chapters. It takes a master like McQuarrie to go back to the drawing board and create a logical development from smallest to largest that makes sense to students."---Hal Harris, University of Missouri-St. Louis "McQuarrie's book is extremely well written, the order of topics is logical, and it does a great job with both introductory material and more advanced concepts. Students of all skill levels will be able to learn from this book."---Mark Kearley, Florida State University This new fourth edition of General Chemistry takes an atoms-first approach from beginning to end. In the tradition of McQuarrie's many previous works, it promises to be another ground-breaking text. This superb new book combines the clear writing and wonderful problems that have made McQuarrie famous among chemistry professors and students worldwide. Presented in an elegant design with all-new illustrations, it is available in a soft-cover edition to offer professors a fresh choice at an outstanding value. Student supplements include an online series of descriptive chemistry Interchapters, a Student Solutions Manual, and an optional state-of-the-art Online Homework program. For adopting professors, an Instructor's Manual and a CD of the art are also available.

European Conference "Building a Europe Without Frontiers: the Role of Women" 1992 Deze Europese conferentie werd georganiseerd door de Mediterranean Women's Studies Institute i.s.m. anderen. Naast de welkomstwoorden en de inleiding worden de samenvattingen van de papers gepresenteerd evenals de conclusies en aanbevelingen gedaan op de conferentie.

Introductory Statistical Thermodynamics Nils Dalansson 2011-01-26 Introductory Statistical Thermodynamics is a text for an introductory one-semester course in statistical thermodynamics for upper-level undergraduate and graduate students in physics and engineering. The book offers a high level of detail in derivations of all equations and results. This information is necessary for students to grasp difficult concepts in physics that are needed to move on to higher level courses. The text is elementary, self contained, and mathematically well-founded, containing a number of problems with detailed solutions to help students to grasp the more difficult theoretical concepts.

Beginning chapters place an emphasis on quantum mechanics Includes problems with detailed solutions and a number of detailed theoretical derivations at the end of each chapter Provides a high level of detail in derivations of all equations and results

Index-catalogue of the Library ... Library of the Surgeon-General's Office (U.S.) 1959

Handbook of Surface Plasmon Resonance Richard B. M. Schasfoort 2017-05-30 Surface plasmon resonance (SPR) plays a dominant role in real-time interaction sensing of biomolecular binding events, this book provides a total system description including optics, fluidics and sensor surfaces for a wide researcher audience.

A Beginner's Guide to Structural Equation Modeling Randall E. Schumacker 2004-06-24 The second edition features: a CD with all of the book's Amos, EQS, and LISREL programs and data sets; new chapters on importing data issues related to data editing and on how to report research; an updated introduction to matrix notation and programs that illustrate how to compute these calculations; many more computer program examples and chapter exercises; and increased coverage of factors that affect correlation, the 4-step approach to SEM and hypothesis testing, significance, power, and sample size issues. The new edition's expanded use of applications make this book ideal for advanced students and researchers in psychology, education, business, health care, political science, sociology, and biology. A basic understanding of correlation is assumed and an understanding of the matrices used in SEM models is encouraged.

Homeworkers in Global Perspective Eileen Boris 2016-01-28 Homeworkers in Global Perspective documents the lives of homeworkers, exploring state policies towards them, and describing the innovative ways in which homeworkers organize. Moving away from well-known, already explored cases, the essays focus on less-known but equally compelling examples organize, and covers the major geographic regions of the world and illustrates the diversity of home-based work and homeworker organizing.

The Materials Science of Semiconductors Angus Rockett 2007-11-20 This book describes semiconductors from a materials science perspective rather than from condensed matter physics or electrical engineering viewpoints. It includes discussion of current approaches to organic materials for electronic devices. It further describes the fundamental aspects of thin film nucleation and growth, and the most common physical and chemical vapor deposition techniques. Examples of the application of the concepts in each chapter to specific problems or situations are included, along with recommended readings and homework problems.

Martin's Physical Pharmacy and Pharmaceutical Sciences Alfred N. Martin 2011 Martin's Physical Pharmacy and Pharmaceutical Sciences is considered the most comprehensive text available on the application of the physical, chemical and biological principles in the pharmaceutical sciences. It helps students, teachers, researchers, and industrial pharmaceutical scientists use elements of biology, physics, and chemistry in their work and study. Since the first edition was published in 1960, the text has been and continues to be a required text for the core courses of Pharmaceutics, Drug Delivery, and Physical Pharmacy. The Sixth Edition features expanded content on drug delivery, solid oral dosage forms, pharmaceutical polymers and pharmaceutical biotechnology, and updated sections to cover advances in nanotechnology.

Classical and Quantum Statistical Physics Carlo Heissenberg 2022-01-20 Statistical physics examines the collective properties of large ensembles of particles, and is a powerful theoretical tool with important applications across many different scientific disciplines. This book provides a detailed introduction to classical and quantum statistical physics, including links to topics at the frontiers of current research. The first part of the book introduces classical ensembles, provides an extensive review of quantum mechanics, and explains how their combination leads directly to the theory of Bose and Fermi gases. This allows a detailed analysis of the quantum properties of matter, and introduces the exotic features of vacuum fluctuations. The second part discusses more advanced topics such as the two-dimensional Ising model and quantum spin chains. This modern text is ideal for advanced undergraduate and graduate students interested in the role of statistical physics in current research. 140

homework problems reinforce key concepts and further develop readers' understanding of the subject.

Library & Information Science Abstracts 1975

Understanding and Developing Student Engagement Colin Bryson 2014-03-05 Enhancing the student experience, and in particular student engagement, has become a primary focus of Higher Education. It is in particularly sharp focus as Higher Education moves forward into the uncertain world of high student fees and a developed Higher Education market. Student engagement is a hot topic, in considering how to offer 'value' and a better student experience. Moreover it is receiving much attention all over the world and underpins so many other priorities such as retention, widening participation and improving student learning generally. Understanding and Developing Student Engagement draws from a range of contributors in a wide variety of roles in Higher Education and all contributors are actively involved in the Researching, Advancing and Inspiring Student Engagement (RAISE) Network. While utilising detailed case examples from UK universities, the authors also provide a critical review and distillation of the differing paradigms of Student Engagement in America, Australasia, South Africa and Europe, drawing upon key research studies and concepts from a variety of contexts. This book uncovers the multi-dimensional nature of student engagement, utilising case examples from both student and staff perspectives, and provides conceptual clarity and strong evidence about this rather elusive notion. It provides a firm foundation from which to discuss practices and policies that might best serve to foster engagement.

The Third Industrial Revolution Jeremy Rifkin 2011-10-04 The Industrial Revolution, powered by oil and other fossil fuels, is spiraling into a dangerous endgame. The price of gas and food are climbing, unemployment remains high, the housing market has tanked, consumer and government debt is soaring, and the recovery is slowing.

Facing the prospect of a second collapse of the global economy, humanity is desperate for a sustainable economic game plan to take us into the future. Here, Jeremy Rifkin explores how Internet technology and renewable energy are merging to create a powerful "Third Industrial Revolution." He asks us to imagine hundreds of millions of people producing their own green energy in their homes, offices, and factories, and sharing it with each other in an "energy internet," just like we now create and share information online. Rifkin describes how the five-pillars of the Third Industrial Revolution will create thousands of businesses, millions of jobs, and usher in a fundamental reordering of human relationships, from hierarchical to lateral power, that will impact the way we conduct commerce, govern society, educate our children, and engage in civic life. Rifkin's vision is already gaining traction in the international community. The European Union Parliament has issued a formal declaration calling for its implementation, and other nations in Asia, Africa, and the Americas, are quickly preparing their own initiatives for transitioning into the new economic paradigm. The Third Industrial Revolution is an insider's account of the next great economic era, including a look into the personalities and players — heads of state, global CEOs, social entrepreneurs, and NGOs — who are pioneering its implementation around the world.

Modern Statistics with R Måns Thulin 2021-07-28 The past decades have transformed the world of statistical data analysis, with new methods, new types of data, and new computational tools. The aim of Modern Statistics with R is to introduce you to key parts of the modern statistical toolkit. It teaches you: - Data wrangling - importing, formatting, reshaping, merging, and filtering data in R. - Exploratory data analysis - using visualisation and multivariate techniques to explore datasets. - Statistical inference - modern methods for testing hypotheses and computing confidence intervals. - Predictive modelling - regression models and machine learning methods for prediction, classification, and forecasting. - Simulation - using simulation techniques for sample size computations and evaluations of statistical methods. - Ethics in statistics - ethical issues and good statistical practice. - R programming - writing code that is fast, readable, and free from bugs. Starting from the very basics, Modern Statistics with R helps you learn R by working with R. Topics covered range from plotting data and writing simple R code to using cross-validation for evaluating complex predictive models and using simulation for sample size determination. The book includes more than 200 exercises with fully worked solutions. Some familiarity with basic statistical concepts, such as linear regression, is assumed. No previous programming experience is needed.

Cumulative Book Index 1997 A world list of books in the English language.

Principles of Management Openstax 2022-03-25 Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well as behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters. Contributing Authors David S. Bright, Wright State University Anastasia H. Cortes, Virginia Tech University Eva Hartmann, University of Richmond K. Praveen Parboteeah, University of Wisconsin-Whitewater Jon L. Pierce, University of Minnesota-Duluth Monique Reece Amit Shah, Frostburg State University Siri Terjesen, American University Joseph Weiss, Bentley University Margaret A. White, Oklahoma State University Donald G. Gardner, University of Colorado-Colorado Springs Jason Lambert, Texas Woman's University Laura M. Leduc, James Madison University Joy Leopold, Webster University Jeffrey Muldoon, Emporia State University James S. O'Rourke, University of Notre Dame

Practical Data Analysis with JMP, Third Edition Robert Carver 2019-10-18 Master the concepts and techniques of statistical analysis using JMP Practical Data Analysis with JMP, Third Edition, highlights the powerful interactive and visual approach of JMP to introduce readers to statistical thinking and data analysis. It helps you choose the best technique for the problem at hand by using real-world cases. It also illustrates best-practice workflow throughout the entire investigative cycle, from asking valuable questions through data acquisition, preparation, analysis, interpretation, and communication of findings. The book can stand on its own as a learning resource for professionals, or it can be used to supplement a college-level textbook for an introductory statistics course. It includes varied examples and problems using real sets of data. Each chapter typically starts with an important or interesting research question that an investigator has pursued. Reflecting the broad applicability of statistical reasoning, the problems come from a wide variety of disciplines, including engineering, life sciences, business, and economics, as well as international and historical examples. Application Scenarios at the end of each chapter challenge you to use your knowledge and skills with data sets that go beyond mere repetition of chapter examples. New in the third edition, chapters have been updated to demonstrate the enhanced capabilities of JMP, including projects, Graph Builder, Query Builder, and Formula Depot.

Probability and Random Processes Geoffrey Grimmett 2001-05-31 This textbook provides a wide-ranging and entertaining introduction to probability and random processes and many of their practical applications. It includes many exercises and problems with solutions.

Factfulness Hans Rosling 2018-04-03 INSTANT NEW YORK TIMES BESTSELLER "One of the most important books I've ever read—an indispensable guide to thinking clearly about the world." — Bill Gates "Hans Rosling tells the story of 'the secret silent miracle of human progress' as only he can. But Factfulness does much more than that. It also explains why progress is so often secret and silent and teaches readers how to see it clearly." —Melinda Gates "Factfulness by Hans Rosling, an outstanding international public health expert, is a hopeful book about the potential for human progress when we work off facts rather than our inherent biases." - Former U.S.

President Barack Obama Factfulness: The stress-reducing habit of only carrying opinions for which you have strong supporting facts. When asked simple questions about global trends—what percentage of the world's population live in poverty; why the world's population is increasing; how many girls finish school—we systematically get the answers wrong. So wrong that a chimpanzee choosing answers at random will consistently outguess teachers, journalists, Nobel laureates, and investment bankers. In Factfulness, Professor of International Health and global TED phenomenon Hans Rosling, together with his two long-time collaborators, Anna and Ola, offers a radical new explanation of why this happens. They reveal the ten instincts that distort our perspective—from our tendency to divide the world into two camps (usually some version of us and them) to the way we consume media (where fear rules) to how we perceive progress (believing that most things are getting worse). Our problem is that we don't know what we don't know, and even our guesses are informed by unconscious and predictable biases. It turns out that the world, for all its imperfections, is in a much better state than we might think. That doesn't mean there aren't real concerns. But when we worry about everything all the time instead of embracing a worldview based on facts, we can lose our ability to focus on the things that threaten us most. Inspiring and revelatory, filled with lively anecdotes and moving stories, Factfulness is an urgent and essential book that will change the way you see the world and empower you to respond to the crises and opportunities of the future. --- "This book is my last battle in my life-long mission to fight devastating ignorance...Previously I armed myself with huge data sets, eye-opening software, an energetic learning style and a Swedish bayonet for sword-swallowing. It wasn't enough. But I hope this book will be." Hans Rosling, February 2017.

Library Literature 1934 "An index to library and information science".

Sweet Battlefields Mats Utas 2003

Touch in Social Interaction Asta Cekaite 2020-07-15 Rooted in multimodal conversation analysis and based on video recordings of naturally occurring social interactions, this book presents a novel analytical perspective for the study of touch. The authors focus on how different forms of touch are interactionally organized in everyday, institutional, and professional practices, showing how touch is multimodally achieved in social interaction, how it acquires its significance, how it is embedded in the current activity and in its social context, and how it is systematically intertwined with talk, facial expressions, and body posture. Including work by a wide range of renowned researchers, this volume provides rich visual illustrations of situations featuring touch as a social and intersubjective practice. The studies make a compelling contribution to the field by clearly examining and demonstrating the social meaning of touch for the participants in social interaction in a broad range of contexts. Presenting a new methodology for the study of touch, this is key reading for all researchers and scholars working in conversation analysis, multimodality, and related areas.

Cognitive Behavioral Therapy for Tinnitus Eldré W. Beukes 2020-10-28 For many individuals afflicted with tinnitus, the condition causes substantial distress. While there is no known cure for tinnitus, cognitive behavioral therapy (CBT) can offer an effective strategy for managing the symptoms and side effects of chronic tinnitus. Cognitive Behavioral Therapy for Tinnitus is the first book to provide comprehensive CBT counseling materials specifically developed for the management of tinnitus. This valuable professional book has two primary purposes: to provide clinical guidelines for audiologists who are offering CBT-based counseling for tinnitus and to provide self-help materials for individuals with tinnitus. In addition, these materials may be of interest to researchers developing evidence-based therapies for tinnitus. The book is structured into three sections. Section A provides background information about the theoretical aspects of CBT and some practical tips on how to use this book. Section B provides the CBT counseling, or self-help materials, which can be used by both audiologists and those with tinnitus. Finally, Section C provides some supplementary materials for clinicians that can aid monitoring and engagement of individuals experiencing tinnitus during the course of intervention. Key Features: * The CBT materials contained in this text have been tested in numerous clinical trials across the globe (Australia, Germany, Sweden, United Kingdom, and the United States) both as self-help book chapters and self-help materials delivered via the Internet. * The counseling materials are presented at minimum reading grade level (U.S. 6th grade level) to maximize reader engagement. * The authors of this book have extensive experience in the management of tinnitus, offering useful insights for clinicians and those with tinnitus. * Includes expert advice videos for each chapter to facilitate its adoption to clinical practice.

Issues and trends in education for sustainable development Leicht, Alexander 2018-02-19

Global Trends 2040 National Intelligence Council 2021-03 "The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." -Global Trends 2040 (2021) Global Trends 2040-A More Contested World (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.