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Peter P. Rohde

Beyond Quantum Andrei Khrennikov,2014-04-10 The present wave of interest in quantum foundations is caused by the tremendous development of quantum information science and its applications to quantum computing and quantum communication. It has become clear that some of the difficulties encountered in realizations of quantum information processing have roots at the very fundamental level. To solve such problems, quantum theory has to be reconsidered. This book is devoted to the analysis of the probabilistic structure of quantum theory, probing the limits of classical probabilistic representation of quantum phenomena.

Quantum Adaptivity in Biology: From Genetics to Cognition Masanari Asano, Andrei Khrennikov, Masanori Ohya, Yoshiharu Tanaka, Ichiro Yamato, 2015-04-14 This book examines information processing performed by bio-systems at all scales: from genomes, cells and proteins to cognitive and even social systems. It introduces a theoretical/conceptual principle based on quantum information and non-Kolmogorov probability theory to explain information processing phenomena in biology as a whole. The book begins with an introduction followed by two chapters devoted to fundamentals, one covering classical and quantum probability, which also contains a brief introduction to quantum formalism, and another on an information approach to molecular biology, genetics and epigenetics. It then goes on to examine adaptive dynamics, including applications to biology, and non-Kolmogorov probability theory. Next, the book discusses the possibility to apply the quantum formalism to model biological evolution, especially at the cellular level: genetic and epigenetic evolutions. It also presents a model of the epigenetic cellular evolution based on the mathematical formalism of open quantum systems. The last two chapters of the book explore foundational problems of quantum mechanics and demonstrate the power of usage of positive operator valued measures (POVMs) in biological science. This book will appeal to a diverse group of readers including experts in biology, cognitive science, decision making, sociology, psychology, and physics; mathematicians working on problems of quantum probability and information and researchers in quantum foundations.

The Quantum Internet Peter P. Rohde,2021-09-30 Following the emergence of quantum computing, the subsequent quantum revolution will be that of interconnecting individual quantum computers at the global level. In the same way that classical computers only realised their full potential with the emergence of the internet, a fully-realised quantum internet is the next stage of evolution for quantum computation. This cutting-edge book examines in detail how the quantum internet would evolve in practise, focusing not only on the technology itself, but also the implications it will have economically and politically, with numerous non-technical sections throughout the text providing broader context to the discussion. The book begins with a description of classical networks before introducing the key concepts behind quantum networks, such as quantum internet protocols, quantum cryptography, and cloud quantum computing. Written in an engaging style and accessible to graduate students in physics, engineering, computer science and mathematics.

Fractional Quantum Mechanics Laskin Nick,2018-05-25 Fractional quantum mechanics is a recently emerged and rapidly developing field of quantum physics. This is the first monograph on fundamentals and physical applications of fractional quantum mechanics, written by its founder. The fractional Schrödinger equation and the fractional path integral are new fundamental physical concepts introduced and elaborated in the book. The fractional Schrödinger equation is a manifestation of fractional quantum mechanics. The fractional path integral is a new mathematical tool based on integration over Lévy flights. The fractional path integral method enhances the well-known Feynman path integral framework. Related

topics covered in the text include time fractional quantum mechanics, fractional statistical mechanics, fractional classical mechanics and the α -stable Lévy random process. The book is well-suited for theorists, pure and applied mathematicians, solid-state physicists, chemists, and others working with the Schrödinger equation, the path integral technique and applications of fractional calculus in various research areas. It is useful to skilled researchers as well as to graduate students looking for new ideas and advanced approaches.

Optical Coherence and Quantum Optics Leonard Mandel, Emil Wolf, 1995-09-29 This book presents a systematic account of optical coherence theory within the framework of classical optics, as applied to such topics as radiation from sources of different states of coherence, foundations of radiometry, effects of source coherence on the spectra of radiated fields, coherence theory of laser modes, and scattering of partially coherent light by random media. The book starts with a full mathematical introduction to the subject area and each chapter concludes with a set of exercises. The authors are renowned scientists and have made substantial contributions to many of the topics treated in the book. Much of the book is based on courses given by them at universities, scientific meetings and laboratories throughout the world. This book will undoubtedly become an indispensable aid to scientists and engineers concerned with modern optics, as well as to teachers and graduate students of physics and engineering.

Net Trek Kelly Maloni,1995 Packed with concise high-interest descriptions, handy side-bars and eyecatching graphics, this is the first comprehensive listing of online Trekker interest groups, conferences, forums, games and trivia. It covers the Internet, the major commercial services, including CompuServe, America Online and Prodigy, and hundreds of bulletin boards.

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).

\$q\$-Series from a Contemporary Perspective Mourad Ismail, Dennis W. Stanton, 2000 This volume presents the proceedings of the Summer Research Conference on q-series and related topics held at Mount Holyoke College (Hadley, Massachusetts). All of the papers were contributed by participants and offer original research. Articles in the book reflect the diversity of areas that overlap with q-series, as well as the usefulness of q-series across the mathematical sciences. The conference was held in honour of Richard

Askey on the occasion of his 65th birthday.

Quantum Computing National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Computer Science and Telecommunications Board, Committee on Technical Assessment of the Feasibility and Implications of Quantum Computing, 2019-04-27 Quantum mechanics, the subfield of physics that describes the behavior of very small (quantum) particles, provides the basis for a new paradigm of computing. First proposed in the 1980s as a way to improve computational modeling of quantum systems, the field of quantum computing has recently garnered significant attention due to progress in building small-scale devices. However, significant technical advances will be required before a large-scale, practical quantum computer can be achieved. Quantum Computing: Progress and Prospects provides an introduction to the field, including the unique characteristics and constraints of the technology, and assesses the feasibility and implications of creating a functional quantum computer capable of addressing real-world problems. This report considers hardware and software requirements, quantum algorithms, drivers of advances in quantum computing and quantum devices, benchmarks associated with relevant use cases, the time and resources required, and how to assess the probability of success.

Probability and Randomness Andre? I?U?r?evich Khrennikov,2016 Creating a rigorous mathematical theory of randomness is far from being complete, even in the classical case. Interrelation of Classical and Quantum Randomness rectifies this and introduces mathematical formalisms of classical and quantum probability and randomness with brief discussion of their interrelation and interpretational and foundational issues. The book presents the essentials of classical approaches to randomness, enlightens their successes and problems, and then proceeds to essentials of quantum randomness. Its wide-ranging and comprehensive scope makes it suitable for researchers in mathematical physics, probability and statistics at any level---

Advances in Chemical Physics Stuart A. Rice, Aaron R. Dinner, 2016-04-06 The Advances in Chemical Physics series provides the chemical physics field with a forum for critical, authoritative evaluations of advances in every area of the discipline. This volume explores the following topics: Thermodynamic Perturbation Theory for Associating Molecules Path Integrals and Effective Potentials in the Study of Monatomic Fluids at Equilibrium Sponteneous Symmetry Breaking in Matter Induced by Degeneracies and Pseudogeneracies Mean-Field Electrostatics Beyond the Point-Charge Description First Passage Processes in Cellular Biology Theoretical Modeling of Vibrational Spectra and Proton Tunneling in Hydroen-Bonded Systems

Ubiquitous Quantum Structure Andrei Y. Khrennikov,2010-01-23 Quantum-like structure is present practically everywhere. Quantum-like (QL) models, i.e. models based on the mathematical formalism of quantum mechanics and its generalizations can be successfully applied to cognitive science, psychology, genetics, economics, finances, and game theory. This book is not about quantum mechanics as a physical theory. The short review of quantum postulates is therefore mainly of historical value: quantum mechanics is just the first example of the successful application of non-Kolmogorov probabilities, the first step towards a contextual probabilistic description of natural, biological, psychological, social, economical or financial phenomena. A general contextual probabilistic model (Växjö model) is presented. It can be used for describing probabilities in both quantum and classical (statistical) mechanics as well as in the above mentioned phenomena. This model can be represented in a quantum-like way, namely, in complex and more general Hilbert spaces. In this way quantum probability is totally demystified: Born's representation of quantum probabilities by complex probability amplitudes, wave functions, is simply a special representation of this type.

Electronic Structure and Properties of Transition Metal Compounds Isaac B. Bersuker,2010-12-01 With more than 40% new and revised materials, this second edition offers researchers and students in the field a comprehensive understanding of fundamental molecular properties amidst cutting-edge applications. Including ~70 Example-Boxes and summary notes, questions, exercises, problem sets, and illustrations in each chapter, this publication is also suitable for use as a textbook for advanced undergraduate and graduate students. Novel material is introduced in description of multi-orbital chemical bonding, spectroscopic and magnetic properties, methods of electronic structure calculation, and quantum-classical modeling for organometallic and metallobiochemical systems. This is an excellent reference for chemists, researchers and teachers, and advanced undergraduate and graduate students in inorganic, coordination, and organometallic chemistry.

Black Mirror and Philosophy David Kyle Johnson,2019-12-03 A philosophical look at the twisted, high-tech near-future of the sci-fi anthology series Black Mirror, offering a glimpse of the darkest reflections of the human condition in digital technology Black Mirror—the Emmy-winning Netflix series that holds up a dark, digital mirror of speculative technologies to modern society—shows us a high-tech world where it is all too easy to fall victim to ever-evolving forms of social control. Black Mirror and Philosophy, original essays written by a diverse group of scholars invite you to peer into the void and explore the philosophical, ethical, and existential dimensions of Charlie Brooker's sinister stories. The collection reflects Black Mirror's anthology structure by pairing a chapter with every episode in the show's five seasons—including an interactive, choose-your-own-adventure analysis of Bandersnatch—and concludes with general essays that explore the series' broader themes. Chapters address questions about artificial intelligence, virtual reality, surveillance, privacy, love, death, criminal behavior, and politics, including: Have we given social media too much power over our lives? Could heaven really, one day, be a place on Earth? Should criminal justice and punishment be crowdsourced? What rights should a "cookie" have? Immersive, engaging, and experimental, Black Mirror and Philosophy navigates the intellectual landscape of Brooker's morality plays for the modern world, where humanity's greatest innovations and darkest instincts collide.

Radiation Ilya Obodovskiy, 2019-03-09 The author is ready to assert that practically none of the readers of this book will ever happen to deal with large doses of radiation. But the author, without a shadow of a doubt, claims that any readers of this book, regardless of gender, age, financial situation, type of professional activity, and habits, are actually exposed to low doses of radiation throughout their life. This book is devoted to the effect of small doses on the body. To understand the basic effects of radiation on humans, the book contains the necessary information from an atomic, molecular and nuclear physics, as well as from biochemistry and biology. Special attention is paid to the issues that are either not considered or discussed very briefly in existing literature. Examples include the ionization of inner atomic shells that play an essential role in radiological processes, and the questions of transformation of the energy of ionizing radiation in matter. The benefits of ionizing radiation to mankind is reflected in a wide range of radiation technologies used in science, industry, agriculture, culture, art, forensics, and, what is the most important application, medicine. Radiation: Fundamentals, Applications, Risks and Safety provides information on the use of radiation in modern life, its usefulness and indispensability. Experiments on the effects of small doses on bacteria, fungi, algae, insects, plants and animals are described. Human medical experiments are inhuman and ethically flawed. However, during the familiarity of mankind with ionizing radiation, a large number of population groups were subject to accumulation, exposed to radiation at doses of small but exceeding the natural background radiation. This book analyzes existing, real-life radiation results from survivors of Hiroshima and Nagasaki, Chernobyl and Fukushima, and examines studies of radiation effect

on patients, radiologists, crews of long-distant flights and astronauts, on miners of uranium copies, on workers of nuclear industry and on militaries, exposed to ionizing radiation on a professional basis, and on the population of the various countries receiving environmental exposure. The author hopes that this book can mitigate the impact of radiation phobia, which prevails in the public consciousness over the last half century. Explores the science of radiation and the effects of radiation technologies and biological processes Analyzes the elementary processes of ionization and excitation Summarizes information about inner shells ionization and its impact on matter and biological structures Discusses quantum concepts in biology and clarifies the importance of epigenetics in radiological processes Includes case studies focusing on humans irradiated by low doses of radiation and its effects

Platform Trial Designs in Drug Development Zoran Antonijevic,Robert A. Beckman,2018-12-07 Platform trials test multiple therapies in one indication, one therapy for multiple indications, or both. These novel clinical trial designs can dramatically increase the cost-effectiveness of drug development, leading to life-altering medicines for people suffering from serious illnesses, possibly at lower cost. Currently, the cost of drug development is unsustainable. Furthermore, there are particular problems in rare diseases and small biomarker defined subsets in oncology, where the required sample sizes for traditional clinical trial designs may not be feasible. The editors recruited the key innovators in this domain. The 20 articles discuss trial designs from perspectives as diverse as quantum computing, patient's rights to information, and international health. The book begins with an overview of platform trials from multiple perspectives. It then describes impacts of platform trials on the pharmaceutical industry's key stakeholders: patients, regulators, and payers. Next it provides advanced statistical methods that address multiple aspects of platform trials, before concluding with a pharmaceutical executive's perspective on platform trials. Except for the statistical methods section, only a basic qualitative knowledge of clinical trials is needed to appreciate the important concepts and novel ideas presented.

Handbook of Photosynthesis Mohammad Pessarakli,2018-09-03 Since the publication of the previous editions of the Handbook of Photosynthesis, many new ideas on photosynthesis have emerged in the past decade that have drawn the attention of experts and researchers on the subject as well as interest from individuals in other disciplines. Updated to include 37 original chapters and making extensive revisions to the chapters that have been retained, 90% of the material in this edition is entirely new. With contributions from over 100 authors from around the globe, this book covers the most recent important research findings. It details all photosynthetic factors and processes under normal and stressful conditions, explores the relationship between photosynthesis and other plant physiological processes, and relates photosynthesis to plant production and crop yields. The third edition also presents an extensive new section on the molecular aspects of photosynthesis, focusing on photosystems, photosynthetic enzymes, and genes. New chapters on photosynthesis in lower and monocellular plants as well as in higher plants are included in this section. The book also addresses growing concerns about excessive levels and high accumulation rates of carbon dioxide due to industrialization. It considers plant species with the most efficient photosynthetic pathways that can help improve the balance of oxygen and carbon dioxide in the atmosphere. Completely overhauled from its bestselling predecessors, the Handbook of Photosynthesis, Third Edition provides a nearly entirely new source on the subject that is both comprehensive and timely. It continues to fill the need for an authoritative and exhaustive resource by assembling a global team of experts to provide thorough coverage of the subject while focusing on finding solutions to relevant contemporary issues related to the field.

MOS Devices for Low-Voltage and Low-Energy Applications Yasuhisa Omura, Abhijit Mallik, Naoto

Matsuo, 2017-02-28 Helps readers understand the physics behind MOS devices for low-voltage and lowenergy applications Based on timely published and unpublished work written by expert authors Discusses various promising MOS devices applicable to low-energy environmental and biomedical uses Describes the physical effects (quantum, tunneling) of MOS devices Demonstrates the performance of devices, helping readers to choose right devices applicable to an industrial or consumer environment Addresses some Gebased devices and other compound-material-based devices for high-frequency applications and future development of high performance devices. Seemingly innocuous everyday devices such as smartphones, tablets and services such as on-line gaming or internet keyword searches consume vast amounts of energy. Even when in standby mode, all these devices consume energy. The upcoming 'Internet of Things' (IoT) is expected to deploy 60 billion electronic devices spread out in our homes, cars and cities. Britain is already consuming up to 16 per cent of all its power through internet use and this rate is doubling every four years. According to The UK's Daily Mail May (2015), if usage rates continue, all of Britain's power supply could be consumed by internet use in just 20 years. In 2013, U.S. data centers consumed an estimated 91 billion kilowatt-hours of electricity, corresponding to the power generated by seventeen 1000-megawatt nuclear power plants. Data center electricity consumption is projected to increase to roughly 140 billion kilowatt-hours annually by 2020, the equivalent annual output of 50 nuclear power plants. —Natural Resources Defense Council, USA, Feb. 2015 All these examples stress the urgent need for developing electronic devices that consume as little energy as possible. The book "MOS Devices for Low-Voltage and Low-Energy Applications" explores the different transistor options that can be utilized to achieve that goal. It describes in detail the physics and performance of transistors that can be operated at low voltage and consume little power, such as subthreshold operation in bulk transistors, fully depleted SOI devices, tunnel FETs, multigate and gate-all-around MOSFETs. Examples of low-energy circuits making use of these devices are given as well. The book MOS Devices for Low-Voltage and Low-Energy Applications is a good reference for graduate students, researchers, semiconductor and electrical engineers who will design the electronic systems of tomorrow. —Dr. Jean-Pierre Colinge, Taiwan Semiconductor Manufacturing Company (TSMC) The authors present a creative way to show how different MOS devices can be used for low-voltage and low-power applications. They start with Bulk MOSFET, following with SOI MOSFET, FinFET, gate-all-around MOSFET, Tunnel-FET and others. It is presented the physics behind the devices, models, simulations, experimental results and applications. This book is interesting for researchers, graduate and undergraduate students. The low-energy field is an important topic for integrated circuits in the future and none can stay out of this. -Prof. Joao A. Martino, University of Sao Paulo, Brazil

Quantum Aspects of Life Derek Abbott, Paul C W Davies, Arun K Pati, 2008-09-12 This book presents the hotly debated question of whether quantum mechanics plays a non-trivial role in biology. In a timely way, it sets out a distinct quantum biology agenda. The burgeoning fields of nanotechnology, biotechnology, quantum technology, and quantum information processing are now strongly converging. The acronym BINS, for Bio-Info-Nano-Systems, has been coined to describe the synergetic interface of these several disciplines. The living cell is an information replicating and processing system that is replete with naturally-evolved nanomachines, which at some level require a quantum mechanical description. As quantum engineering and nanotechnology meet, increasing use will be made of biological structures, or hybrids of biological and fabricated systems, for producing novel devices for information storage and processing and other tasks. An understanding of these systems at a quantum mechanical level will be indispensable. Contents:Foreword (Sir R Penrose)Emergence and Complexity:A Quantum Origin of Life? (P C W Davies)Quantum Mechanics and Emergence (S Lloyd)Quantum Mechanisms in Biology:Quantum

Coherence and the Search for the First Replicator (J Al-Khalili & J McFadden)Ultrafast Quantum Dynamics in Photosynthesis (A O Castro, F F Olsen, C F Lee & N F Johnson) Modelling Quantum Decoherence in Biomolecules (J Bothma, J Gilmore & R H McKenzie)The Biological Evidence:Molecular Evolution: A Role for Quantum Mechanics in the Dynamics of Molecular Machines that Read and Write DNA (A Goel)Memory Depends on the Cytoskeleton, but is it Quantum? (A Mershin & D V Nanopoulos)Quantum Metabolism and Allometric Scaling Relations in Biology (L Demetrius)Spectroscopy of the Genetic Code (J D Bashford & P D Jarvis) Towards Understanding the Origin of Genetic Languages (A D Patel) Artificial Quantum Life: Can Arbitrary Quantum Systems Undergo Self-Replication? (A K Pati & S L Braunstein) A Semi-Quantum Version of the Game of Life (A P Flitney & D Abbott) Evolutionary Stability in Quantum Games (A Iqbal & T Cheon)Quantum Transmemetic Intelligence (E W Piotrowski & J S≈adkowski)The Debate:Dreams versus Reality: Plenary Debate Session on Quantum Computing (For Panel: C M Caves, D Lidar, H Brandt, A R Hamilton, Against Panel: D K Ferry, J Gea-Banacloche, S M Bezrukov, L B Kish, Debate Chair: C R Doering, Transcript Editor: D Abbott)Plenary Debate: Quantum Effects in Biology: Trivial or Not? (For Panel: P C W Davies, S Hameroff, A Zeilinger, D Abbott, Against Panel: J Eisert, H M Wiseman, S M Bezrukov, H Frauenfelder, Debate Chair: J Gea-Banacloche, Transcript Editor: D Abbott) Nontrivial Quantum Effects in Biology: A Skeptical Physicist's View (H Wiseman & J Eisert)That's Life! — The Geometry of π Electron Clouds (S Hameroff) Readership: Graduate students and researchers in quantum physics, biophysics, nanosciences, quantum chemistry, mathematical biology and complexity theory, as well as philosophers of science. Keywords:Quantum Biology;Quantum Computation; Quantum Mechanics; Biophysics; Nanotechnology; Quantum Technology; Quantum Information Processing; Bio-Info-Nano-Systems (BINS); Emergence; Complexity; Complex Systems; Cellular Automata; Game Theory; Biomolecules; Photosynthesis; DNA; Genetic Code; Decoherence Key Features: Is structured in a debate style, where contributors argue opposing positionsBrings together some of the finest minds and latest developments in the fieldIs entirely unique and there are no competing titles

Analysis of Flame Retardancy In Polymer Science Henri Vahabi, Mohammad Reza Saeb, Giulio Malucelli,2022-03-10 Analysis of Flame Retardancy in Polymer Science is a scientific/practical book that is conceptualized, designed, and written for students, early-career researchers, and junior engineers to explain the basic principles of fire analysis/characterization methods/methodologies, from flammability, ignition, and fire spread to forced convection and related analyses and to elucidate the mechanisms underlying flame retardancy in both gas and condensed phases followed by correlation between laboratory- and real-scale fire analyses as well as fire analysis from an industrial standpoint. This book is also an indispensable resource for identifying and mounting the latest achievements in fire analysis/characterization methods to frame the effects of fire evaluation strategies to be utilized for research and development. The book also gives a broad description of fire analysis related to different standards and regulations for different applications in different geographic zones. Includes the background, fundamental, and modern features of techniques of characterization of fire and flame behavior Provides an overview of the major techniques used in fire analysis of flame-retardant polymers Characterizes different types of materials at small, bench, and real-life scale Offers a comprehensive overview of fire behavior and testing and associated toxicity issues Integrates the scientific, technical, standard, regulation, and industrial aspects of fire analysis into a book for future developments in the field

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