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2023-03-26

KARSYN FREDERICK

Qualitative Research & Evaluation

Methods CRC Press

This book describes the basic physics of semiconductors, including the hierarchy of transport models, and connects the theory with the functioning of actual semiconductor devices. Details are worked out carefully and derived from the basic physics, while keeping the internal coherence of the concepts and explaining various levels of approximation. Examples are based on silicon due to its industrial importance. Several chapters are included that provide the reader with the quantum-mechanical concepts necessary for understanding the transport properties of crystals. The behavior of crystals

incorporating a position-dependent impurity distribution is described, and the different hierarchical transport models for semiconductor devices are derived (from the Boltzmann transport equation to the hydrodynamic and drift-diffusion models). The transport models are then applied to a detailed description of the main semiconductor-device architectures (bipolar, MOS). The final chapters are devoted to the description of some basic fabrication steps, and to measuring methods for the semiconductor-device parameters.

Soviet Physics, JETP. Springer Nature Availability of and adequate accessibility to freshwater and energy are two key technological and scientific problems of global significance. At the end of the 20th century, the deficit of water for human

consumption and economic application forced us to focus on rational use of resources. Increasing the use of renewable energy sources and improving energy efficiency is a challenge for the 21st century. Geothermal energy is heat energy generated and stored in the Earth, accumulated in hydrothermal systems or in dry rocks within the Earth's crust, in amounts which constitute the energy resources. The sustainable management of geothermal energy resources should be geared towards optimization of energy recovery, but also towards rational management of water resources since geothermal water serves both as energy carrier and also as valuable raw material. Geothermal waters, depending on their hydrogeothermal characteristics, the lithology of the rocks involved, the depth

at which the resources occur and the sources of water supply, may be characterized by very diverse physicochemical parameters. This factor largely determines the technology to be used in their exploitation and the way the geothermal water can be used. This book is focused on the effective use of geothermal water and renewable energy for future needs in order to promote modern, sustainable and effective management of water resources. The research field includes crucial new areas of study: • an improvement in the management of freshwater resources through the use of residual geothermal water; • a review of the technologies available in the field of geothermal water treatment for its (re)use for energetic purposes and freshwater production, and • the development of balneotherapy. The book is aimed at professionals, academics and decision makers worldwide, water sector representatives and administrators, business enterprises specializing in renewable energy management and water treatment, working in the areas of geothermal energy usage, water resources, water supply and energy

planning. This book has the potential to become a standard text used by educational institutions and research & development establishments involved in the geothermal water management.

Oxford Textbook of Sjögren's Syndrome
Momentum Press

The interplay between combinatorics and theoretical physics is a recent trend which appears to us as particularly natural, since the unfolding of new ideas in physics is often tied to the development of combinatorial methods, and, conversely, problems in combinatorics have been successfully tackled using methods inspired by theoretical physics. We can thus speak nowadays of an emerging domain of Combinatorial Physics. The interference between these two disciplines is moreover an interference of multiple facets. Its best known manifestation (both to combinatorialists and theoretical physicists) has so far been the one between combinatorics and statistical physics, as statistical physics relies on an accurate counting of the various states or configurations of a physical system. But combinatorics and theoretical physics interact in various other ways. This book is

mainly dedicated to the interactions of combinatorics (algebraic, enumerative, analytic) with (commutative and non-commutative) quantum field theory and tensor models, the latter being seen as a quantum field theoretical generalisation of matrix models.

Comprehensive Biomedical Physics CRC Press

Statistical Physics (SP) has followed an unusual evolutionary path in science. Originally aiming to provide a fundamental basis for another important branch of Physics, namely Thermodynamics, SP gradually became an independent field of research in its own right. But despite more than a century of steady progress, there are still plenty of challenges and open questions in the SP realm. In fact, the area is still rapidly evolving, in contrast to other branches of science, which already have well defined scopes and borderlines of applicability. This difference is due to the steadily expanding number of applications, as well as ongoing improvements and revisions of concepts and methods in SP. Such particular aspects of SP lend further significance and timeliness to this book about perspectives

and trends within the field. Here, the aim is to present the state-of-the-art vision of expert researchers who study SP and Complex Systems. Although a comprehensive treatment is well beyond what can be treated in a single volume, the book provides a snapshot of the field today, as well as a glimpse of where the field may be heading during the next decade. The book is aimed at graduate and advanced undergraduate physics students, as well as researchers who work with SP, Complex Systems, Computational Physics, Biological Physics and related topics. It addresses questions such as: What insights can be gained from recent advances in the study of traditional problems in SP? How can SP help us understand problems that arise in the biological sciences and in the study of complex systems? How can new problems be formulated using the 'language' of SP? In this way, it attempts to document partial progress in answering these and related questions. The book also commemorates the occasion of the 70th anniversary in 2011 of two important physicists and friends who dedicated their lives to the understanding of nature in

general and to the development of Statistical Physics and the science of Complexity in particular: Liacir Lucena and H Eugene Stanley.

Yearbook of International Organizations 2013-2014 (Volumes 1A-1B)

Yearbook of International Organizations 2013-2014 (Volumes 1A-1B) Yearbook of International Orga This book covers some fundamental aspects and frontiers in non-equilibrium physics and soft matter research. Apart from the basic knowledge on nonlinear statistic physics, dynamics, computer simulations, and main approaches and emerging systems in soft matter research, particular attention is devoted to new conceptual flexible functional materials and the enriching areas, such as silk meso-molecular materials, molecular gels, liquid crystals, flexible electronics and new types of catalysis, etc. One of the main characteristics of this book is to start with the structure formation dynamics and the correlation between the structures and macroscopic performance. This lays down the foundation for the mesoscopic materials design and functionalization. The book is intended for upper undergraduate students, graduate students, and researchers who are interested in soft

matter researches. As one of main references, the basic principles and technologies of computer simulations and experimental methods adopted in soft matter research are also explained. Illustrations and tables are included in this book to improve the readability, and examples and exercises are added to help understanding.

Geothermal Water Management BoD – Books on Demand

This book proposes a method to solve land use problems, and has made some significant contributions to the land use analysis and optimization study fields. Firstly, three spatio-temporal logit models for land use change analysis, namely, geographically and temporally weighted logit model (GTWLM), spatio-temporal panel logit model (ST-PLM) and generalized spatio-temporal logit model (GSTLM), are proposed. GTWLM, which considers spatio-temporal non-stationarity, includes temporal data in a spatio-temporal framework by proposing a spatiotemporal distance. ST-PLM incorporates the spatio-temporal correlation and individual effect in one model. By integrating GTWLM and ST-PLM,

the GSTLM explores spatio-temporal non-stationarity and correlations simultaneously, whilst considering their individual effects to construct an integrated model. Secondly, a MOO-based two-level spatial planning of land use is proposed. The spatial planning aims at managing and coordinating the land use at different geographic extents and involves spatial layouts and structures of land use at different levels. In spatial planning, GIS and Remote Sensing are used to evaluate, analyze, and measure environmental, economic and social issues. The quantitative relationships between these objectives and spatial land use allocation are then used as rules in the MOO process to simulate environmental conditions under different spatial land use allocation scenarios. The book features a case study of Shenzhen city, the most important Special Economic Zone in China. This book will be of interest to academics and professionals in the fields of urban planning, land resource management, remote sensing and geographic information systems.

Studies in Science Education in the Asia-Pacific Region Jeffrey Frank Jones

This book highlights the development and outcomes of research on and practical experience in science education in Taiwan. As the outcomes of the scholarship on science education in Taiwan have garnered attention in science education communities around the world, this book gathers the most relevant research on Taiwan, presenting it in a cohesive overview that will move science education forward in terms of policy, research and practice.

Fundamentals of IoT Communication Technologies Springer

Volume 1 (A and B) covers international organizations throughout the world, comprising their aims, activities and events.

Micromachining HY Publishing Company Limited

Comprehensive Biomedical Physics, Ten Volume Set is a new reference work that provides the first point of entry to the literature for all scientists interested in biomedical physics. It is of particularly use for graduate and postgraduate students in the areas of medical biophysics. This Work is indispensable to all serious readers in this interdisciplinary area where physics is

applied in medicine and biology. Written by leading scientists who have evaluated and summarized the most important methods, principles, technologies and data within the field, Comprehensive Biomedical Physics is a vital addition to the reference libraries of those working within the areas of medical imaging, radiation sources, detectors, biology, safety and therapy, physiology, and pharmacology as well as in the treatment of different clinical conditions and bioinformatics. This Work will be valuable to students working in all aspect of medical biophysics, including medical imaging and biomedical radiation science and therapy, physiology, pharmacology and treatment of clinical conditions and bioinformatics. The most comprehensive work on biomedical physics ever published Covers one of the fastest growing areas in the physical sciences, including interdisciplinary areas ranging from advanced nuclear physics and quantum mechanics through mathematics to molecular biology and medicine Contains 1800 illustrations, all in full color Physics of Semiconductor Devices SAGE Publications

Drawing on more than 40 years of experience conducting applied social science research and program evaluation, author Michael Quinn Patton has crafted the most comprehensive and systematic book on qualitative research and evaluation methods, inquiry frameworks, and analysis options available today. Now offering more balance between applied research and evaluation, this Fourth Edition of *Qualitative Research & Evaluation Methods* illuminates all aspects of qualitative inquiry through new examples, stories, and cartoons; more than a hundred new summarizing and synthesizing exhibits; and a wide range of new highlight sections/sidebars that elaborate on important and emergent issues. For the first time, full case studies are included to illustrate extended research and evaluation examples. In addition, each chapter features an extended "ruminations," written in a voice and style more emphatic and engaging than traditional textbook style, about a core issue of persistent debate and controversy.

The Physics of Degradation in Engineered Materials and Devices

Oxford University Press
Sjögren's syndrome is a chronic autoimmune disease which can cause debilitating fatigue and pain. Diagnosis is often challenging due to the variability of symptoms and severity, and a multidisciplinary approach to management and treatment is required, yet there are few comprehensive resources covering everything clinicians need to know. The Oxford Textbook of Sjögren's Syndrome bridges this gap by offering extensive coverage of system by system manifestations and treatments, as well as practical, evidence-based advice on diagnosing and managing this condition. Bringing together recent advances in research and therapies, this up-to-date guide covers everything clinicians need to know from the fundamental science and clinical characteristics of this condition, to the immunological and biochemical aspects, investigative procedures such as biopsy techniques and imaging modalities, and pharmacological and non-pharmacological interventions.

Latent Heat of Fusion of Ice Yellowreef Limited

This book covers the elective module

"Medical Physics" of the HKDSE (the Hong Kong Diploma of Secondary Education Examination) Physics Examination. It contains comprehensive notes of the relevant knowledge for the examination, so that it can be used as a coursebook as well. It contains a wealth of multiple choice questions and structured questions in examination format, with detailed solutions, to help students consolidate their concepts and master their skills.

National Health Education Standards Newnes

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[https://play.google.com/store/books/details?id=Xh3kDwAAQBAJ&rdid=book-Xh3kDwAAQBAJ&rdot=1&source=gbs_atb&pcampaignid=books_booksearch_atb \(\(- 159\) \) \(HK\\$19.90\) https://play.google.com/store/books/details?id=Yh3kDwAAQBAJ&rdid=book-Yh3kDwAAQBAJ&rdot=1&source=gbs_vpt_read&pcampaignid=books_booksearch_viewport](https://play.google.com/store/books/details?id=Xh3kDwAAQBAJ&rdid=book-Xh3kDwAAQBAJ&rdot=1&source=gbs_atb&pcampaignid=books_booksearch_atb ((- 159)) (HK$19.90) https://play.google.com/store/books/details?id=Yh3kDwAAQBAJ&rdid=book-Yh3kDwAAQBAJ&rdot=1&source=gbs_vpt_read&pcampaignid=books_booksearch_viewport)

Future Sustainable Ecosystems Elsevier Health Sciences

Degradation is apparent in all things and is fundamental to both manufactured and natural objects. It is often described by the second law of thermodynamics, where entropy, a measure of disorder, tends to increase with time in a closed system. Things age! This concise reference work brings together experts and key players engaged in the physics of degradation to present the background science, current thinking and developments in understanding, and gives a detailed account of emerging issues across a selection of engineering applications. The

work has been put together to equip the upper level undergraduate student, postgraduate student, as well as the professional engineer and scientist, in the importance of physics of degradation. The aim of *The Physics of Degradation in Engineered Materials and Devices* is to bridge the gap between published textbooks on the fundamental science of degradation phenomena and published research on the engineering science of actual fabricated materials and devices. A history of the observation and understanding of physics of degradation is presented and the fundamentals and principles of thermodynamics and entropy are extensively discussed. This is the focus of this book, with an extended chapter by Alec Feinberg on equilibrium thermodynamic damage and non-equilibrium thermodynamic damage. It concludes with two particular technologies to give examples of areas of application. *Physics of Semiconductor Devices* Springer This textbook explores all of the protocols and technologies essential to IoT communication mechanisms. Geared towards an upper-undergraduate or graduate level class, the book is presented

from a perspective of the standard layered architecture with special focus on protocol interaction and functionality. The IoT protocols are presented and classified based on physical, link, network, transport and session/application layer functionality. The author also lets readers understand the impact of the IoT mechanisms on network and device performance with special emphasis on power consumption and computational complexity. Use cases - provided throughout - provide examples of IoT protocol stacks in action. The book is based on the author's popular class "Fundamentals of IoT" at Northeastern University. The book includes examples throughout and slides for classroom use. Also included is a 'hands-on' section where the topics discussed as theoretical content are built as stacks in the context of an IoT network emulator so readers can experiment.

Combinatorial Physics Frontiers Media SA

The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community. As a result, the latest findings,

research and discoveries can be quickly disseminated. This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community. This workshop's technical sessions include various current and significant topics for applications and scientific developments, including • Optoelectronics • VLSI & ULSI Technology • Photovoltaics • MEMS & Sensors • Device Modeling and Simulation • High Frequency/ Power Devices • Nanotechnology and Emerging Areas • Organic Electronics • Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees.

Sabiston Textbook of Surgery John Wiley & Sons

This volume addresses developments in European space policy and its significance for European integration, using discourse theory as a framework. It seeks to address the developments in European space policy by examining several sensitive

security questions linked in general with space activities, on the one hand, and the interplay between space policy and security policy in the European Union (EU) on the other. The book argues that defence and security matters should be studied for a better understanding of space projects in their historical, political, economic, legal and social context. The volume seeks to answer the following key questions: • What can space policy contribute to European identity formation and the integration process? • What are the interests of member states/EU institutions in space? • How is space policy perceived by European institutions, and how have they been engaged in the policy process to promote activity in space? • In which ways is the EU engaged in space, in terms of policy areas, e.g. foreign policy, industrial policy, security and defence policies? • What is the impact of institutions on the policy-making process in European space policy? This book will be of interest to students of EU policy, space policy, discourse studies and International Relations in general.

Large Deviations in Physics Springer Nature

Future Sustainable Ecosystems: Complexity, Risk, Uncertainty provides an interdisciplinary, integrative overview of environmental problem-solving using statistics. It shows how statistics can be used to solve diverse environmental and socio-economic problems involving food, water, energy scarcity, and climate change risks. It synthesizes interdisciplinary theory, concepts, definitions, models and findings involved in complex global sustainability problem-solving, making it an essential guide and reference. It includes real-world examples and applications making the book accessible to a broader interdisciplinary readership. Discussions include a broad, integrated perspective on sustainability, integrated risk, multi-scale changes and impacts taking place within ecosystems worldwide. State-of-the-art statistical techniques, including Bayesian hierarchical, spatio-temporal, agent-based and game-theoretic approaches are explored. The author then focuses on the real-world integration of observational and experimental data and its use within statistical models.

Publications Combined - Over 100 Studies

In Nanotechnology With Medical, Military And Industrial Applications 2008-2017
Routledge

- questions from very challenging examinations since 2003
- complete solutions
- arranged in topical order to facilitate drilling
- complete and true encyclopedia of question-types
- comprehensive “trick” questions revealed
- tendency towards carelessness is greatly reduced
- most efficient method of learning, hence saves time
- very advanced tradebook
- complete edition eBook available

Towards a Local Realist View of the Quantum Phenomenon Fillans Press Limited

An innovative, three-dimensional x-ray imaging technique that enhances projection radiography by adding depth resolution, Tomosynthesis Imaging explores tomosynthesis, an emerging limited-angle tomographic imaging

technology that is being considered for use in a range of clinical applications, and is currently being used for breast cancer screening and diagnosis. While conventional mammography has been very successful in reducing breast cancer mortality, it is not perfect. A major limitation of mammography is that the recorded image represents the superposition of complex three-dimensional structures in the breast onto a two-dimensional plane, making detection and diagnosis of breast cancer challenging. Tomosynthesis produces quasi-three-dimensional images that can significantly enhance the visualization of important diagnostic features. This book highlights the flexibility of tomosynthesis systems for new clinical applications, and provides a detailed discussion of the tomosynthesis acquisition process and the impact of physical factors. It explores such topics as acquisition parameters, system

components, modeling, image reconstruction algorithms, and system evaluation. Provides in-depth coverage of system design considerations, as well as image reconstruction strategies Describes the current state of clinical applications of tomosynthesis, including imaging of the breast and chest, as well as its use in radiotherapy Illustrates the merits of tomosynthesis imaging and its potential clinical applications in imaging of the breast and chest, as well as for radiation therapy Divided into five sections, this text delves into the history and development of tomosynthesis. It introduces tomosynthesis imaging, discusses imaging system design considerations, and reviews image reconstruction algorithms that have been developed for tomosynthesis. It also describes system evaluation methodologies, emphasizes current clinical applications, and examines the future direction for tomosynthesis.