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Practical Quantum Mechanics Modern Tools and Applications E-Discovery Tools and Applications in Modern Libraries |GI| *Global Technology* has revolutionized the ways in which libraries store, share, and access information. As digital resources and tools continue to advance, so too do the opportunities for libraries to become more efficient and house more information. *E-Discovery Tools and Applications in Modern Libraries* presents critical research on the digitization of data and how this shift has impacted knowledge discovery, storage, and retrieval. This publication explores several emerging trends and concepts essential to electronic discovery, such as library portals, responsive websites, and federated search technology. The timely research presented within this publication is designed for use by librarians, graduate-level students, technology developers, and researchers in the field of library and information science. **Many-Body Quantum Theory in Condensed Matter Physics An Introduction** *Oxford University Press* The book is an introduction to quantum field theory applied to condensed matter physics. The topics cover modern applications in electron systems and electronic properties of mesoscopic systems and nanosystems. The textbook is developed for a graduate or advanced undergraduate course with exercises which aim at giving students the ability to confront real problems. **Statistical Mechanics: Theory and Molecular Simulation** *OUP Oxford* Complex systems that bridge the traditional disciplines of physics, chemistry, biology, and materials science can be studied at an unprecedented level of detail using increasingly sophisticated theoretical methodology and high-speed computers. The aim of this book is to prepare burgeoning users and developers to become active participants in this exciting and rapidly advancing research area by uniting for the first time, in one monograph, the basic concepts of equilibrium and time-dependent statistical mechanics with the modern techniques used to solve the complex problems that arise in real-world applications. The book contains a detailed review of classical and quantum mechanics, in-depth discussions of the most commonly used ensembles simultaneously with modern computational techniques such as molecular dynamics and Monte Carlo, and important topics including free-energy calculations, linear-response theory, harmonic baths and the generalized Langevin equation, critical phenomena, and advanced conformational sampling methods. *Burgeoning users and developers are thus provided firm grounding to become active participants in this exciting and rapidly advancing research area, while experienced practitioners will find the book to be a useful reference tool for the field.* **Jewish Books and their Readers Aspects of the Intellectual Life of Christians and Jews in Early Modern Europe** *BRILL* *Jewish Books and their Readers* asks what constituted a 'Jewish' book in early modern Europe: how it was presented, disseminated, and understood within Jewish and Christian environments, and what effect this had on views of Jews and their intellectual heritage. **Modular Forms: A Classical Approach** *American Mathematical Soc.* The theory of modular forms is a fundamental tool used in many areas of mathematics and physics. It is also a very concrete and "fun" subject in itself and abounds with an amazing number of surprising identities. This comprehensive textbook, which includes numerous exercises, aims to give a complete picture of the classical aspects of the subject, with an emphasis on explicit formulas. After a number of motivating examples such as elliptic functions and theta functions, the modular group, its subgroups, and general aspects of holomorphic and nonholomorphic modular forms are explained, with an emphasis on explicit examples. The heart of the book is the classical theory developed by Hecke and continued up to the Atkin-Lehner-Li theory of newforms and including the theory of Eisenstein series, Rankin-Selberg theory, and a more general theory of theta series including the Weil representation. The final chapter explores in some detail more general types of modular forms such as half-integral weight, Hilbert, Jacobi, Maass, and Siegel modular forms. Some "gems" of the book are an immediately implementable trace formula for Hecke operators, generalizations of Haberland's formulas for the computation of Petersson inner products, W. Li's little-known theorem on the diagonalization of the full space of modular forms, and explicit algorithms due to the second author for computing Maass forms. This book is essentially self-contained, the necessary tools such as gamma and Bessel functions, Bernoulli numbers, and so on being given in a separate chapter. **Oxford Textbook of Medical Education** *Oxford University Press* Providing a comprehensive and evidence-based reference guide for those who have a strong and scholarly interest in medical education, the *Oxford Textbook of Medical Education* contains everything the medical educator needs to know in order to deliver the knowledge, skills, and behaviour that doctors need. The book explicitly states what constitutes best practice and gives an account of the evidence base that corroborates this. Describing the theoretical educational principles that lay the foundations of best practice in medical education, the book gives readers a through grounding in all aspects of this discipline. Contributors to this book come from a variety of different backgrounds, disciplines and continents, producing a book that is truly original and international. **Real Analysis** *Oxford University Press* Real Analysis is indispensable for in-depth understanding and effective application of methods of modern analysis. This concise and friendly book is written for early graduate students of mathematics or of related disciplines hoping to learn the basics of Real Analysis with reasonable ease. The essential role of Real Analysis in the construction of basic function spaces necessary for the application of Functional Analysis in many fields of scientific disciplines is demonstrated with due explanations and illuminating examples. After the introductory chapter, a compact but precise treatment of general measure and integration is taken up so that readers have an overall view of the simple structure of the general theory before delving into special measures. The universality of the method of outer measure in the construction of measures is emphasized because it provides a unified way of looking for useful regularity properties of measures. The chapter on functions of real variables sits at the core of the book; it treats in detail properties of functions that are not only basic for understanding the general feature of functions but also relevant for the study of those function spaces which are important when application of functional analytical methods is in question. This is then followed naturally by an introductory chapter on basic principles of Functional Analysis which reveals, together with the last two chapters on the space of p-integrable functions and Fourier integral, the intimate interplay between Functional Analysis and Real Analysis. Applications of many of the topics discussed are included to motivate the readers for further related studies; these contain explorations towards probability theory and partial differential equations. **Time-Dependent Density-Functional Theory Concepts and Applications** *Oxford University Press* Time-dependent density-functional theory (TDDFT) is a quantum mechanical approach for the dynamical properties of electrons in matter. It's widely used in (bio)chemistry and physics to calculate molecular excitation energies and optical properties of materials. This is the first graduate-level text on the formal framework and applications of TDDFT. **A Modern Primer in Particle and Nuclear Physics** *Oxford University Press* Suitable for undergraduate and graduate physics students, this unique textbook provides an ideal entry point into particle, nuclear, and astroparticle physics and presents the modern concepts, theories, and experiments that explain the elementary constituents and basic forces of the universe. **Axiomatic Design and Fabrication of Composite Structures Applications in Robots, Machine Tools, and Automobiles** *Oxford University Press* This book presents an integrated approach to the design and manufacturing of products made of advanced composites. It is designed to teach students and practicing engineers how to streamline and improve the design process for parts and machines made out of composite materials by focusing on the behavior of composites and their constitutive relationships during the design stage. The primary market for this text will be industry-sponsored courses and practicing engineers, with some potential for use in university graduate courses in the US and abroad. The book will include a CD of the authors' own analytical software, *Axiomatic CLPT (Classical Laminar Plate Theory)* for students and self-learners. It is part of the *Oxford Series on Advanced Manufacturing (OSAM)*. **Applied Dynamics With Applications to Multibody and Mechatronic Systems** *Wiley-VCH* Applied Dynamics provides a modern and thorough examination of dynamics with specific emphasis on physical examples and applications such as: robotic systems, magnetic bearings, aerospace dynamics, and microelectromagnetic machines. Also includes the development of the method of virtual velocities based on the principle of virtual power. **Coding Theory Recent Advances, New Perspectives and Applications** *BoD - Books on Demand* This book explores the latest developments, methods, approaches, and applications of coding theory in a wide variety of fields and endeavors. It consists of seven chapters that address such topics as applications of coding theory in networking and cryptography, wireless sensor nodes in wireless body area networks, the construction of linear codes, and more. **Mindfulness Ancient Wisdom Meets Modern Psychology** *Guilford Publications* Explores mindfulness from its roots in Buddhist psychology to its role in contemporary psychological science. In-depth case examples illustrate how and why mindfulness training can help people move from distress and suffering to resilience and flourishing. **Syon Abbey** *British Library Board* Syon Abbey, the only house of the Bridgettine order in England, was founded in 1415. The celebrated literary activities of the brethren were supported by a magnificent library, one of the best attested of late medieval England thanks to the intricate catalogue prepared around 1500 by Brother Thomas Betson, and kept up until around 1523. This volume presents a full edition of the catalogue, and for the first time it both reconstructs entries for the many books known to have been deaccessioned and it identifies many printed books by secundo folio, so offering a complete picture of the changing collection. Also published in this volume are eight short book-lists from English Carthusian houses edited by Ian Doyle. **Foundations of Probabilistic Programming** *Cambridge University Press* This book provides an overview of the theoretical underpinnings of modern probabilistic programming and presents applications in e.g., machine learning, security, and approximate computing. Comprehensive survey chapters make the material accessible to graduate students and non-experts. This title is also available as Open Access on Cambridge Core. **Computer Simulation Tools for X-ray Analysis Scattering and Diffraction Methods** *Springer* This book teaches the users on how to construct a library of routines to simulate scattering and diffraction by almost any kind of samples. The main goal of this book is to break down the huge barrier of difficulties faced by beginners from many fields (Engineering, Physics, Chemistry, Biology, Medicine, Material Science, etc.) in using X-rays as an analytical tool in their research. Besides fundamental concepts, MatLab routines are provided, showing how to test and implement the concepts. The major difficult in analysing materials by X-ray techniques is that it strongly depends on simulation software. This book teaches the users on how to construct a library of routines to simulate scattering and diffraction by almost any kind of samples. It provides to a young student the knowledge that would take more than 20 years to acquire by working on X-rays and relying on the available textbooks. The scientific productivity worldwide is growing at a breakneck pace, demanding ever more dynamic approaches and synergies between different fields of knowledge. To master the fundamentals of X-ray physics means the opportunity of working at an infiniteness of fields, studying systems where the organizational understanding of matter at the atomic scale is necessary. Since the discovery of X radiation, its usage as investigative tool has always been under fast expansion afforded by instrumental advances and computational resources. Developments in medical and technological fields have, as one of the master girders, the feasibility of structural analysis offered by X-rays. One of the major difficulties faced by beginners in using this fantastic tool lies in the analysis of experimental data. There are only few cases where it is possible to extract structural information directly from experiments. In most cases, structure models and simulation of radiation-matter interaction processes are essential. The advent of intense radiation sources and rapid development of nanotechnology constantly creates challenges that seek solutions beyond those offered by standard X-ray techniques. Preparing new researchers for this scenario of rapid and drastic changes requires more than just teaching theories of physical phenomena. It also requires teaching of how to implement them in a simple and efficient manner. In this book, fundamental concepts in applied X-ray physics are demonstrated through available computer simulation tools. Using MatLab, more than eighty routines are developed for solving the proposed exercises, most of which can be directly used in experimental data analysis. Therefore, besides X-ray physics, this book offers a practical programming course in modern high-level language, with plenty of graphic and mathematical tools. **Book Parts** *Oxford University Press, USA* *Book Parts* tells the histories of the parts of a book that are not the main text: chapter heads, page numbers, introductions, indexes . . . Each of these elements emerged at a certain time and developed in a particular way. The book is arranged into twenty two chapters, covering topics from front matter (title page, frontispiece, etc.) to back (errata list, endleaves, etc.), and each written by an expert on the subject but with an emphasis on lightness, so that its presentation is authoritative but not ponderous. **Zeta Functions over Zeros of Zeta Functions** *Springer Science & Business Media* In this text, the famous zeros of the Riemann zeta function and its generalizations (L-functions, Dedekind and Selberg zeta functions) are analyzed through several zeta functions built over those zeros. **Jane Austen, Early and Late** *Princeton University Press* A reexamination of Austen's unpublished writings that uncovers their continuity with her celebrated novels—and that challenges distinctions between her "early" and "late" work Jane Austen's six novels, published toward the end of her short life, represent a body of work that is as brilliant as it is compact. Her earlier writings have routinely been dismissed as mere juvenilia, or stepping stones to mature proficiency and greatness. Austen's first

biographer described them as "childish effusions." Was he right to do so? Can the novels be definitively separated from the unpublished works? In *Jane Austen, Early and Late*, Freya Johnston argues that they cannot. Examining the three manuscript volumes in which Austen collected her earliest writings, Johnston finds that Austen's regard and affection for them are revealed by her continuing to revisit and revise them throughout her adult life. The teenage works share the milieu and the humour of the novels, while revealing more clearly the sources and influences upon which Austen drew. Johnston upends the conventional narrative, according to which Austen discarded the satire and fantasy of her first writings in favour of the irony and realism of the novels. By demonstrating a stylistic and thematic continuity across the full range of Austen's work, Johnston asks whether it makes sense to speak of an early and a late Austen at all. *Jane Austen, Early and Late* offers a new picture of the author in all her complexity and ambiguity, and shows us that it is not necessarily true that early work yields to later, better things. **Behind the Scenes Or, Thirty Years a Slave and Four Years in the White House** *Cosimo, Inc.* Elizabeth Keckley's rise from slave to White House confidante details the cruel and terrible life for those in slavery, and the drive and determination of a woman who would not let others destroy her will. **Algebraic Models in Geometry** *Oxford University Press* In the past century, different branches of mathematics have become more widely separated. Yet, there is an essential unity to mathematics which still springs up in fascinating ways to solve interdisciplinary problems. This text provides a bridge between the subjects of algebraic topology, including differential topology, and geometry. It is a survey book dedicated to a large audience of researchers and graduate students in these areas. Containing a general introduction to the algebraic theory of rational homotopy and giving concrete applications of algebraic models to the study of geometrical problems, mathematicians in many areas will find subjects that are of interest to them in the book. **Data-Driven Science and Engineering Machine Learning, Dynamical Systems, and Control** *Cambridge University Press* Data-driven discovery is revolutionizing the modeling, prediction, and control of complex systems. This textbook brings together machine learning, engineering mathematics, and mathematical physics to integrate modeling and control of dynamical systems with modern methods in data science. It highlights many of the recent advances in scientific computing that enable data-driven methods to be applied to a diverse range of complex systems, such as turbulence, the brain, climate, epidemiology, finance, robotics, and autonomy. Aimed at advanced undergraduate and beginning graduate students in the engineering and physical sciences, the text presents a range of topics and methods from introductory to state of the art. **Econometric Analysis of Cross Section and Panel Data, second edition** *MIT Press* The second edition of a comprehensive state-of-the-art graduate level text on microeconomic methods, substantially revised and updated. The second edition of this acclaimed graduate text provides a unified treatment of two methods used in contemporary econometric research, cross section and data panel methods. By focusing on assumptions that can be given behavioral content, the book maintains an appropriate level of rigor while emphasizing intuitive thinking. The analysis covers both linear and nonlinear models, including models with dynamics and/or individual heterogeneity. In addition to general estimation frameworks (particular methods of moments and maximum likelihood), specific linear and nonlinear methods are covered in detail, including probit and logit models and their multivariate, Tobit models, models for count data, censored and missing data schemes, causal (or treatment) effects, and duration analysis. *Econometric Analysis of Cross Section and Panel Data* was the first graduate econometrics text to focus on microeconomic data structures, allowing assumptions to be separated into population and sampling assumptions. This second edition has been substantially updated and revised. Improvements include a broader class of models for missing data problems; more detailed treatment of cluster problems, an important topic for empirical researchers; expanded discussion of "generalized instrumental variables" (GIV) estimation; new coverage (based on the author's own recent research) of inverse probability weighting; a more complete framework for estimating treatment effects with panel data, and a firmly established link between econometric approaches to nonlinear panel data and the "generalized estimating equation" literature popular in statistics and other fields. New attention is given to explaining when particular econometric methods can be applied; the goal is not only to tell readers what does work, but why certain "obvious" procedures do not. The numerous included exercises, both theoretical and computer-based, allow the reader to extend methods covered in the text and discover new insights. **Repeated Games and Reputations Long-Run Relationships** *Oxford University Press* Personalized and continuing relationships play a central role in any society. Economists have built upon the theories of repeated games and reputations to make important advances in understanding such relationships. *Repeated Games and Reputations* begins with a careful development of the fundamental concepts in these theories, including the notions of a repeated game, strategy, and equilibrium. Mailath and Samuelson then present the classic folk theorem and reputation results for games of perfect and imperfect public monitoring, with the benefit of the modern analytical tools of decomposability and self-generation. They also present more recent developments, including results beyond folk theorems and recent work in games of private monitoring and alternative approaches to reputations. *Repeated Games and Reputations* synthesizes and unifies the vast body of work in this area, bringing the reader to the research frontier. Detailed arguments and proofs are given throughout, interwoven with examples, discussions of how the theory is to be used in the study of relationships, and economic applications. The book will be useful to those doing basic research in the theory of repeated games and reputations as well as those using these tools in more applied research. **Quantum Fields From the Hubble to the Planck Scale** *Oxford University Press* Coherent approach leading to a more comprehensive understanding of quantum field theory and cosmology. Includes discussion of a variety of applications, has numerous worked examples and problems, and is self-contained and suitable for self study.-- **Lie Groups An Introduction Through Linear Groups** *Oxford University Press on Demand* This new in paperback edition provides a clear introduction to the theory of Lie groups and their representations for advanced undergraduates and graduate students in mathematics. Starting from basic undergraduate level mathematics, the text proceeds through the fundamentals of Lie theory up to topics in representation theory. **An Essay on Criticism Reading English Verse in Manuscript C. 1350-C. 1500** *Oxford University Press, USA* Reading English Verse in Manuscript, c.1350-c.1500 is the first book-length history of reading for later Middle English poetry. While much past work in the history of reading has revolved around marginalia, this book consults a wider range of evidence, from the weights of books in medieval bindings to relationships between rhyme and syntax. It combines literary-critical close readings, detailed case studies of particular surviving codices, and systematic manuscript surveys drawing on continental European traditions of quantitative codicology to demonstrate the variety, vitality, and formal concerns visible in the reading of verse in this period. The small- and large-scale formal features of poetry affected reading subtly but extensively, determining how readers might move through books and even shaping physical books themselves. Readers' responses to one formal feature, rhyme, meanwhile, evince a habitual but therefore deep-rooted formalism which can support and enhance close readings today. *Reading English Verse in Manuscript* sheds fresh light on poets such as Geoffrey Chaucer, John Lydgate, and Thomas Hoccleve, but also shows how their works were read in manuscript in the context of a much larger mass of anonymous poems that influenced canonical poems, in a pattern of mutual influence. **The Whispers of Cities Information Flows in Istanbul, London, and Paris in the Age of William Trumbull** *Oxford University Press* This book is the first study of how information flows linked early modern cities in Europe and the Ottoman Empire. It is as much about media of communication (i.e., how information circulated) as it is about a wide variety of messages of communication (i.e., different types of information including political news, local gossip, stories, etc.). In doing so, it argues that stories circulating in Ottoman oral culture in Istanbul could experience a second life inscribed and printed newspapers in London and Paris. One argument, therefore, is about the mechanics of communication, and how information flows represented a type of connectedness between Europe and the Middle East long before modern communications. But there is a larger argument too about early modern globalization itself, namely that we cannot understand these types of flows and networks without also thinking about the role that individual people played in these processes. To this end, what is unique about the approach of this volume is that it tells the story about early modern communication through the prism of a single person's experience, namely William Trumbull. **American Journal of Physics Biocomputation and Biomedical Informatics: Case Studies and Applications Case Studies and Applications** *IJ Global* "This book provides a compendium of terms, definitions, and explanations of concepts, processes, and acronyms"--Provided by publisher. **Empirical Ethics in Psychiatry** *Oxford University Press* Psychiatry presents a unique array of difficult ethical questions. A major challenge is to approach psychiatry in a way that does justice to the real ethical issues. This book shows how ethics can engage more closely with the reality of psychiatric practice and how empirical methodologies from the social sciences can help foster this link. **Material Texts in Early Modern England** *Cambridge University Press* This book combines book history and literary criticism to explore how early modern books were richer things than previously imagined. **Fundamentals of Mathematical Logic** *CRC Press* This introductory graduate text covers modern mathematical logic from propositional, first-order and infinitary logic and Gödel's Incompleteness Theorems to extensive introductions to set theory, model theory and recursion (computability) theory. Based on the author's more than 35 years of teaching experience, the book develops students' intuition by presenting complex ideas in the simplest context for which they make sense. The book is appropriate for use as a classroom text, for self-study, and as a reference on the state of modern logic. **Literary Remains** Relates to translations of Greek folk tales, private letters, printed and graphic material. **Oxford Textbook of Spirituality in Healthcare** *Oxford University Press* Includes Internet access card bound inside front matter. **Ultrashort Laser Pulse Phenomena Fundamentals, Techniques, and Applications on a Femtosecond Time Scale** One of the first coherent, tutorial graduate level text/reference books on ultrashort laser phenomena, this book presents an introduction to the phenomena and explains how it can be used to help examine problems in areas such as electromagnetism, optics, and quantum mechanics. Written for students as well as experimental researchers in physics, engineering, biology, or chemistry, the text provides the necessary background and tools to design experiments involving ultrashort pulses. All aspects of design are covered: from the construction of the source, to the amplifier, to the diagnostic method, and finally, to the design of the experiment in any field. The text reviews the basic properties of light propagation through matter and provides a study of simple optical components with emphasis on the important phenomena that occur with pulses of duration less than 10-12s (or less than 0.3 mm in length). The reader is also provided with the fundamental concepts (as well as numerical data through numerous tables), necessary to design optical systems capable of manipulating such pulses. Beyond the simple optical system, the various types of sources of ultrashort pulses are presented, again with emphasis on the basic concepts and how they apply to the design of particular sources (dye lasers, solid state lasers, semiconductor lasers, fiber lasers, and sources based on frequency conversion). This book is addressed as much to the physicist as to the engineer, chemist, biologist, student, or experienced researcher interested in the application of ultrashort light pulses to the study of ultrafast event in this field. Key Features * Provides an easy to follow guide through "faster than electronics" probing and detection methods * Describes the intriguing aspects of optics when applied to ultrashort pulses * Offers a systematic and comprehensive lecture through all the uncommon and unexpected aspects of short pulse propagation through linear and nonlinear media * Serves as a manual on designing and constructing femtosecond systems or experiments "from scratch" * Presents a course that combined experimental techniques and theoretical backgrounds, by authors who have two decades of experience in both theoretical and experimental aspects of ultrafast phenomena * Bridges the gap between an authored work and a textbook **The Future of Nursing Leading Change, Advancing Health** *National Academies Press* The Future of Nursing explores how nurses' roles, responsibilities, and education should change significantly to meet the increased demand for care that will be created by health care reform and to advance improvements in America's increasingly complex health system. At more than 3 million in number, nurses make up the single largest segment of the health care work force. They also spend the greatest amount of time in delivering patient care as a profession. Nurses therefore have valuable insights and unique abilities to contribute as partners with other health care professionals in improving the quality and safety of care as envisioned in the Affordable Care Act (ACA) enacted this year. Nurses should be fully engaged with other health professionals and assume leadership roles in redesigning care in the United States. To ensure its members are well-prepared, the profession should institute residency training for nurses, increase the percentage of nurses who attain a bachelor's degree to 80 percent by 2020, and double the number who pursue doctorates. Furthermore, regulatory and institutional obstacles -- including limits on nurses' scope of practice -- should be removed so that the health system can reap the full benefit of nurses' training, skills, and knowledge in patient care. In this book, the Institute of Medicine makes recommendations for an action-oriented blueprint for the future of nursing. **Comparative Matters The Renaissance of Comparative Constitutional Law** *Oxford University Press, USA* Through an extensive exploration of comparative constitutional endeavours past and present, near and far, Ran Hirschl shows how attitudes towards engagement with the constitutive laws of others reflect tensions between particularism and universalism as well as competing visions of who 'we' are as a political community. Drawing on insights from social theory, religion, history, political science, and public law, Hirschl argues for an interdisciplinary approach to comparative constitutionalism that is methodologically and substantively preferable to merely doctrinal accounts. The future of comparative constitutional studies, he contends, lies in relaxing the sharp divide between constitutional law and the social sciences.