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Introductory Quantum Mechanics for Applied Nanotechnology Dae Mann Kim,2016-05-04 This introductory textbook covers fundamental quantum mechanics from an application perspective considering optoelectronic devices biological sensors and molecular imagers as well as solar cells and field effect transistors The book provides a brief review of classical and statistical mechanics and electromagnetism and then turns to the quantum treatment of atoms molecules and chemical bonds Aiming at senior undergraduate and graduate students in nanotechnology related areas like physics materials science and engineering the book could be used at schools that offer interdisciplinary but focused training for future workers in the semiconductor industry and for the increasing number of related nanotechnology firms and even practicing people could use it when they need to learn related concepts The author is Professor Dae Mann Kim from the Korea Institute for Advanced Study who has been teaching Quantum Mechanics to engineering material science and physics students for over 25 years in USA and Asia

Fundamentals of Quantum Mechanics C. L. Tang,2005-06-23 Quantum mechanics has evolved from a subject of study in pure physics to one with a wide range of applications in many diverse fields The basic concepts of quantum mechanics are explained in this book in a concise and easy to read manner leading toward applications in solid state electronics and optics Following a logical sequence the book focuses on key ideas and is conceptually and mathematically self contained The fundamental principles of quantum mechanics are illustrated by showing their application to systems such as the hydrogen atom multi electron ions and atoms the formation of simple organic molecules and crystalline solids of practical importance It leads on from these

basic concepts to discuss some of the most significant applications in semiconductor electronics and optics. Containing many homework problems, the book is suitable for senior level undergraduate and graduate level students in electrical engineering, material sciences, applied physics, and chemistry. **Engineering Thermofluids** Mahmoud Massoud, 2005-09-16

Thermofluids, while a relatively modern term, is applied to the well-established field of thermal sciences, which is comprised of various intertwined disciplines. Thus, mass, momentum, and heat transfer constitute the fundamentals of thermofluids. This book discusses thermofluids in the context of thermodynamics, single and two-phase flow, as well as heat transfer associated with single and two-phase flows. Traditionally, the field of thermal sciences is taught in universities by requiring students to study engineering, thermodynamics, fluid mechanics, and heat transfer in that order. In graduate school, these topics are discussed at more advanced levels. In recent years, however, there have been attempts to integrate these topics through a unified approach. This approach makes sense as thermal design of widely varied systems, ranging from hair dryers to semiconductor chips to jet engines to nuclear power plants, is based on the conservation equations of mass, momentum, angular momentum, energy, and the second law of thermodynamics. While integrating these topics has recently gained popularity, it is hardly a new approach. For example, Bird, Stewart, and Lightfoot in *Transport Phenomena*, Rohsenow and Choi in *Heat Mass and Momentum Transfer*, El Wakil in *Nuclear Heat Transport*, and Todreas and Kazimi in *Nuclear Systems* have pursued a similar approach. These books, however, have been designed for advanced graduate level courses. More recently, undergraduate books using an integral approach are appearing. *Quantum Mechanics* Jasprit Singh, 2008-11-20

Explore the relationship between quantum mechanics and information age applications. This volume takes an altogether unique approach to quantum mechanics. Providing an in-depth exposition of quantum mechanics fundamentals, it shows how these concepts are applied to most of today's information technologies, whether they are electronic devices or materials. No other text makes this critical essential leap from theory to real-world applications. The book's lively discussion of the mathematics involved fits right in with contemporary multidisciplinary trends in education. Once the basic formulation has been derived in a given chapter, the connection to important technological problems is summarily described. A book for the information age, *Quantum Mechanics: Fundamentals and Applications to Technology* promises to become a standard in departments of electrical engineering, applied physics, and materials science, as well as physics. It is an excellent text for senior undergraduate and graduate students and a helpful reference for practicing scientists, engineers, and chemists in the semiconductor and electronic industries. *Introduction to Spintronics* Supriyo Bandyopadhyay, Marc Cahay, 2015-09-18

Introduction to Spintronics provides an accessible, organized, and progressive presentation of the quantum mechanical concept of spin and the technology of using it to store, process, and communicate information. Fully updated and expanded to 18 chapters, featuring many new drill problems, this edition reflects the explosion of study in spin-related physics, addressing seven important physical phenomena with spintronic device applications. It discusses spintronics without magnetism, which allows one to

manipulate spin currents by purely electrical means It explores lateral spin orbit interaction and its many nuances as well as the possibility to implement spin polarizers and analyzers using quantum point contacts It also introduces the concept of single domain nanomagnet based computing

An Introduction to Condensed Matter Physics for the Nanosciences Arthur McGurn, 2023-04-13 The book provides an accessible introduction to the principles of condensed matter physics with a focus on the nanosciences and device technologies The basics of electronic phononic photonic superconducting optics quantum optics and magnetic properties are explored and nanoscience and device materials are incorporated throughout the chapters Many examples of the fundamental principles of condensed matter physics are taken directly from nanoscience and device applications This book requires a background in electrodynamics quantum mechanics and statistical mechanics at the undergraduate level It will be a valuable reference for advanced undergraduates and graduate students of physics engineering and applied mathematics

Features Contains discussions of the basic principles of quantum optics and its importance to lasers quantum information and quantum computation Provides references and a further reading list to additional scientific literature so that readers can use the book as a starting point to then follow up with a more advanced treatment of the topics covered Requires only a basic background in undergraduate electrodynamics quantum mechanics and statistical mechanics

Introductory Quantum Mechanics for Semiconductor Nanotechnology Dae Mann Kim, 2010-04-26 Dieses von der Korean Nanotechnology Research Society als Lehrbuch empfohlene Werk hebt sich von anderen Einf hrungen in die Quantenmechanik ab Stark anwendungsbezogen bespricht der lehrerfahrene Autor quantenmechanische Aspekte der Halbleiter Nanotechnologie die er durch viele Mainstream Applikationen illustriert Unter anderem erl utert er Photodetektoren Laserdioden Solarzellen Transistoren und Schottky Kontakte Die mathematischen Herleitungen sind auf ein Minimum beschr nkt daf r legt der Autor besonderen Wert auf den technischen Background und nicht zuletzt auf eine st ndige Motivation seiner Leser Mit zahlreichen bungsaufgaben L sungen L sungsheft f r Dozenten und Pr sentationsmaterial

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