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This book focuses on recent topics of quantum science in both physics and chemistry. Until now, quantum science has not been fully discussed from the interdisciplinary vantage points of both physics and chemistry. This book, however, is written not only for theoretical physicists and chemists, but also for experimentalists in the fields of physical chemistry and condensed matter physics, as collaboration and interplay between construction of quantum theory, and experimentation has become more important. Tips for starting new types of research projects will be found in an understanding of cutting-edge quantum science. In Part I, quantum electronic structures are explained in cases of strongly correlated copper oxides and heavy elements. In Part II, quantum molecular dynamics is investigated by

computational approaches and molecular beam experiments. In Part III, after lithium problem in big bang nucleosynthesis scenario is considered using supersymmetric standard model, quantum theories in atomic and molecular systems are reviewed. Finally, in Part IV, the development of quantum computational method is introduced. Advances in Imaging and Electron Physics features cutting-edge articles on the physics of electron devices (especially semiconductor devices), particle optics at high and low energies, microlithography, image science and digital image processing, electromagnetic wave propagation, electron microscopy, and the computing methods used in all these domains. Contributions from leading authorities informs and updates on all the latest developments in the field. Primarily intended for the undergraduate students of mathematics, physics and engineering, this text gives in-depth coverage of differential equations and the methods for solving them. The book begins with the definitions, the physical and geometric origins of differential equations, and the methods for solving the first order differential equations. Then it goes on to give the applications of these equations to such areas as biology, medical sciences, electrical engineering and economics. The text also discusses, systematically and logically, higher order differential equations and their applications to telecommunications, civil engineering, cardiology and detection of diabetes, as also the methods of solving simultaneous differential equations and their applications. Besides, the book provides a detailed discussion on Laplace transforms and their applications, partial differential

equations and their applications to vibration of stretched string, heat flow, transmission lines, etc., and calculus of variations and its applications. The book, which is a happy fusion of theory and application, would also be useful to postgraduate students.

NEW TO THIS EDITION • New sections on: (a) Equations reducible to linear partial differential equations (b) General method for solving the second order non-linear partial differential equations (Monge's Method) (c) Lagrange's equations of motion • Number of solved examples in Chapters 5, 7, 8, 9 and 10. A comprehensive introduction to the principles and applications of remote sensing, written by contributors actively involved in optical remote sensing research. Special attention is paid to the interrelationship between land surfaces and the intervening atmosphere. Focusing specifically on the spectral region of 0.04 to 16 microns, this book covers a wide range of techniques and their practical implementations. Demonstrates how the same basic measurements can be used in several different applications to obtain quantitative measurements. Engineered nanopolymer and nanoparticles, with their extraordinary mechanical and unique electronic properties, have garnered much attention in recent years. With a broad range of potential applications, including nanoelectronics, composites, chemical sensors, biosensors, microscopy, nanoelectromechanical systems, and many more, the scientific community is more motivated than ever to move beyond basic properties and explore the real issues associated with carbon nanotube-based applications. Engineered nanopolymer and nanoparticles are

exceptionally interesting from a fundamental research point of view. They open up new perspectives for various applications, such as nano-transistors in circuits, field-emission displays, artificial muscles, or added reinforcements in alloys. This informative book is an introduction to the physical concepts needed for investigating carbon nanotubes and other one-dimensional solid-state systems. Written for a wide scientific readership, each chapter consists of an instructive approach to the topic and sustainable ideas for solutions. This new book presents leading-edge research in this dynamic field. It reviews the recent progress in application of engineered nanopolymer and nanoparticles and their composites. The advantages and disadvantages of different methods are discussed. The ability of continuum methods to bridge different scales is emphasized. Recommendations for future research are given by focusing on what each method has to learn from the nano-scale. The scope of the book is to provide current knowledge to support researchers entering the scientific area of carbon nanotubes and help them choose the appropriate modeling tool for accomplishing their study and where to place their efforts to further improve continuum methods.

Advances in Control Systems: Theory and Applications, Volume 5 provides information pertinent to the significant progress in the field of control and systems theory and applications. This book presents the problem of the optimal control of a system. Organized into six chapters, this volume begins with an overview of the fundamental conditions in the calculus of variations that are basic to the optimal control problem. This text then examines

one of the basic problems in control and systems theory in general. Other chapters consider a number of rather basic results in optimal nonlinear filtering and describe the characteristic function of the state of vector of a nonlinear system. This book discusses as well a significant application area of control and systems theory, which is the optimal control of nuclear reactors. The final chapter deals with optimal control with bounds on the state variables. This book is a valuable resource for practicing engineers. An electrorheological (ER) suspension is made from an insulating liquid medium embodying either a semi-conductive particulate material or a semi-conductive liquid material (usually a liquid crystal material). Since its mechanical properties can be easily controlled over a wide range (almost from a pure liquid to a solid), the ER fluid can be used as an electric and mechanical interface in various industrial areas, for example, in the automotive industrial for clutch, brake and damping systems and in robotic arm joints and hands. In addition, the ER technique can be used to fabricate advanced functional materials such as photonic crystals, smart inks, and heterogeneous polymer composites. The major objective of Electrorheological Fluids is to present a comprehensive survey on the ER suspensions in term of screening high performance ER materials, physical mechanisms of the ER effect, and the applications of ER technology. * Applications of ER suspensions are of wide interest both in academia and industry * Surveys a large body of literature on the mechanism of the ER effect and the design of industrially applicable ER devices *

Discusses technological problems affiliated with industrial applications An international, multi- and interdisciplinary scientific journal of original articles and of short communications in the following fields: physics and dynamics of the oceans and seas, incl. oceanography and marine sciences; air-sea and air-land-vegetation interactions, incl. physical, chemical and biological processes; modelling and remote sensing of oceans, atmospheres and climate; physics, dynamics and chemistry of the lower, middle and upper atmosphere of the Earth, incl. meteorology and climatology; physics of ionosphere and magnetosphere of the Earth, incl. solar-terrestrial relations, geomagnetism and magnetic activity; interplanetary and heliospheric physics, incl. solar wind, energetic particles and radiation belts of the Earth; physics and dynamics of the solar atmosphere, incl. chromosphere and corona, emissions and magnetic activity; space plasma physics and active experiments in space.

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