Advanced Quantum Mechanics By Satya Prakash

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Advanced Inorganic Chemistry - Volume I is a concise book on basic concepts of inorganic chemistry. It acquaints the students with the basic principles of chemistry and further dwells into the chemistry of main group elements and their compounds. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

????:Modern college physics

The present volume on Vedic Physics by Keshav Dev Verma is indeed a unique attempt to interpret the ancient Indian literature by defining various symbols, concepts and terminology occurring in Vedic hymns and other texts. While accepting Maharsi Dayananda's view that Vedas are the repository of all true sciences, the author does examine this statement with a view to test it on the hard rock of truth. Shri Verma has selected the Sankhya-Patanjala system that explains the physical world (Universe) on the basis of Cosmic evolution; the Vaisesika-Nyaya expounds the methodology and elaborates the concepts of physics, chemistry and mechanics. Shri Verma has very systematically tried to interpret the Sankhya aphorisms and concludes that the ultimate ground to which the manifested world can be traced is Prakrti having three attributes-Sattva (existence), energy at rest or Rajas (energy that which is efficient in a phenomenon and is characterised by a tendency to move and overcome any resistance) and Tamas (mass or inertia) which resists the Rajas to do work and also resists Sattva from conscious manifestation.

Satya P. Gupta's Hydroxamics Acids is the first book to compile invited articles written by international experts on the class of compounds hydroxamic acids. Found to possess a wide spectrum of biological activities, the hydroxamic acids are of interest to theoretical and experimental chemists who can study and make use of them in drug design and development. Chapters in this book provide a diverse and comprehensive coverage of this compound class and consequently this publication is a valuable resource for researchers in chemical, pharmaceutical and biological sciences.

In the present edition of the book, a new layout of the book with good looking pictures and tables has been brought for better understading.

The rise of artificial intelligence and its countless branches have caused many professional industries to rethink their traditional methods of practice and develop new techniques to keep pace with technological advancement. The continued use of intelligent

technologies in the professional world has propelled researchers to contemplate future opportunities and challenges that artificial intelligence may withhold. Significant research is a necessity for understanding future trends of artificial intelligence and the preparation of prospective issues. Analyzing Future Applications of AI, Sensors, and Robotics in Society provides emerging research exploring the potential uses and future challenges of intelligent technological advancements and their impact in education, finance, politics, business, healthcare, and engineering. Featuring coverage on a broad range of topics such as neuronal networks, cognitive computing, and e-health, this book is ideally designed for practitioners, researchers, scientists, executives, strategists, policymakers, academicians, government officials, developers, and students seeking current research on future societal uses of intelligent technology.

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Being the crucial components of living cells, ion channels are important targets of therapeutic agents. Historically, it has been challenging to develop drugs on this target class. A major issue with target based ion channel drug development is the identification of effective small chemical leads for medicinal chemistry optimization to the clinical candidate status. Thus enough attention has been paid to the study of structure and functions of ion channels and their potential inhibitors. The present book compiles important chapters authored by eminent workers in the field to cover important recent advances in the studies of the structure and functions of ion channels and their inhibitors, such as sodium ion, potassium ion, chloride ion, calcium ion channel inhibitors. The book may be of great use to the students and scientists working in the area of molecular biology, biochemistry, physiology, neurobiology, and medicinal chemistry.

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The book is all about concern to Indian Science: "The standard of science education is declining alarmingly. The best minds are not turning to science, and those who do, do not remain in science. The Indian contribution to basic sciences in global context is reducing both in quality and quantity. What are the remedial measures?" It is strongly felt that there is an urgent need to take historic political decisions and to move fast to reverse the situation, the collective efforts of all akin to Bosonic character.

Introduction to the Theory of Collisions of Electrons with Atoms and MoleculesSpringer Science & Business Media

The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations.

An understanding of the collisions between micro particles is of great importance for the number of fields belonging to physics, chemistry, astrophysics, biophysics etc. The present book, a theory for electron-atom and molecule collisions is developed using non-relativistic quantum mechanics in a systematic and lucid manner. The scattering theory is an

essential part of the quantum mechanics course of all universities. During the last 30 years, the author has lectured on the topics presented in this book (collisions physics, photon-atom collisions, electron-atom and electron-molecule collisions, "electron-photon delayed coincidence technique", etc.) at many institutions including Wayne State University, Detroit, MI, The University of Western Ontario, Canada, and The Meerut University, India. The present book is the outcome of those lectures and is written to serve as a textbook for post-graduate and pre-PhD students and as a reference book for researchers.

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