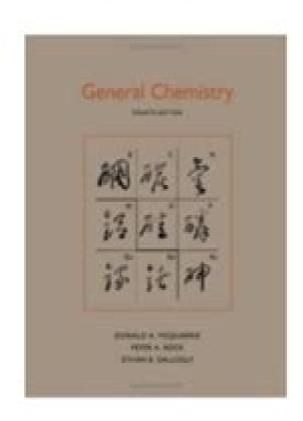
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that reflects how chemistry developed and progresses It proposes that chemistry should be taught the way it is practiced by chemists as a human enterprise at the interface of scientific practice and HPS Finally it sets out to convince teachers to go beyond the traditional classroom practice and explore new teaching strategies. The importance of HPS has been recognized for the science curriculum since the middle of the 20th century The need for teaching chemistry within a historical context is not difficult to understand as HPS is not far below the surface in any science classroom A review of the literature shows that the traditional chemistry classroom curricula and textbooks while dealing with concepts such as law theory model explanation hypothesis observation evidence and idealization generally ignore elements of the history and philosophy of science This book proposes that the conceptual understanding of chemistry requires knowledge and understanding of the history and philosophy of science Professor Niaz s book is most welcome coming at a time when there is an urgently felt need to upgrade the teaching of science The book is a huge aid for adding to the usual way presenting science as a series of mere facts also the necessary mandate to show how science is done and how science through its history and philosophy is part of the cultural development of humanity Gerald Holton Mallinckrodt Professor of Physics these are valence bond VB and molecular orbital MO theories He emphasizes the importance of having rival theories and interpretations in science and its advancement He further argues that this VB MO rivalry is still alive and together the two conceptual frames serve as the tool kit for thinking and doing chemistry in creative manners The author surveys chemistry textbooks in the light of the how the books preserve or not the balance between the two theories in describing various chemical phenomena This Talmudic approach of conceptual tension is a universal characteristic of any branch of evolving wisdom As such Mansoor s book would be of great utility for chemistry teachers to examine how can they become more effective teachers by recognizing the importance of conceptual tension Sason Shaik Saeree K and Louis P Fiedler Chair in Chemistry Director The Lise Meitner Minerva Center for Computational Quantum Chemistry The Hebrew University of Jerusalem ISRAEL Gems. Granites. and Gravels R. V. Dietrich, Brian J. Skinner, 1990 Every person on earth uses either directly or indirectly ten metric tons of minerals each year So write Dr R V Dietrich and Dr Brian J Skinner in their new book Gems Granites and Gravels Minerals and mineral products are involved in all aspects of our lives we depend on them to keep us alive and ensure the continuity of our society As a consequence they have been a source of fascination and study throughout human history In this book Drs Dietrich and Skinner consider not only the beauty of minerals and rocks but also their utility and their roles in our everyday well being Gems Granites and Gravels is a valuable introduction to mineralogy and to related specialities such as petrology the study of rocks crystallography the study of crystals and soil science Discoveries in these fields are described in a historical context while the authors explain what minerals and rocks are how they are distributed around the world how we depend on them and where to see the most beautiful specimens of both minerals and rocks This book will appeal to anyone interested in natural history and curious about rocks and minerals including rock and mineral collectors students of geology

and professional geologists Introduction To Time-dependent Quantum Mechanics With Python Atanu Bhattacharya, Elliot R Bernstein, 2023-10-18 Computational spectroscopy and computational quantum chemical dynamics is a vast field in physical chemistry Significant part of this field is developed based on the concepts of time dependent quantum mechanics and its numerical implementations This book gives an introduction to the Time Dependent Quantum Chemistry for use with any introductory college university course in optics spectroscopy kinetics dynamics or experimental physical chemistry or chemical physics of the kind usually taken by undergraduate and graduate students in physical chemistry In this book different concepts of time dependent quantum mechanics are systematically presented by first giving emphasis on the contrasting viewpoint of classical and quantum mechanical motion of a particle then by demonstrating the ways to find classical flavour in quantum dynamics thereafter by formally defining the wavepacket which represents a quantum particle and finally by demonstrating numerical methods to explore the wavepacket dynamics in one dimension Along with the analytical theory accompanying Python chapters in this book take readers to a hands on tour with Python programming by first giving them a quick introduction to the Python programming then by introducing the position space grid representation of the wavefunction thereafter by making them familiarized with the Fourier transform to represent the discretized wavefunction in momentum space subsequently by showing the Python based methodologies to express Hamiltonian operator in matrix form and finally by demonstrating the entire Python program which solves the wavepacket dynamics in one dimension under influence of time independent Hamiltonian following split operator approach Rigorous class testing of the presented lecture notes at the Indian Institute of Science GITAM University and at NPTEL platform reveals that physical chemistry students after thoroughly going through all chapters not only develop an in depth understanding of the wavepacket dynamics and its numerical implementations but also start successfully writing their own Python code for solving Handbook of Photosynthesis Mohammad Pessarakli, 2024-07-31 The any one dimensional wavepacket dynamics problem Fourth Edition of the Handbook of Photosynthesis offers a unique and comprehensive collection of topics in the field of photosynthesis serving as an invaluable resource in this field With contributions from 95 scientists and experts from over 20 countries this volume has been divided into 13 parts each serving independently to facilitate the understanding of the material FEATURES Presents comprehensive information on photosynthesis under normal and environmental stress conditions Covers artificial photosynthesis and its future related issues Contains 25 new chapters and 18 extensively revised and expanded chapters Includes three new sections Influence of Nanoparticles on Photosynthesis Protection of Photosynthesis System and Stress Alleviation Strategies by Photosynthates Manipulations and Photosynthesis Efficiency in Plants under Multiple Abiotic and Biotic Stressors and Artificial Photosynthesis and Its Future Contains numerous tables figures illustrations and case studies to facilitate the comprehension of the material as well as thousands of index words A primary resource in its field Handbook of Photosynthesis Fourth Edition provides a comprehensive resource for researchers

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