

Basic Chemistry Timberlake 3rd Edition

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leading students through the essential concepts that are central to understanding biological systems this text uses everyday examples and analogies to build their confidence in an often daunting subject by focusing on the key themes that unify the subject it shows how integral chemistry is to the biosciences

written by a multidisciplinary group of soil and environmental scientists biophysico chemical processes of heavy metals and metalloids in soil environments provides the scientific community with a critical qualitative and quantitative review of the fundamentals of the processes of pollutants in soil environments the book covers pollutants speciation mobility bioavailability and toxicity and impacts on development of innovative restoration strategies in addition the development of innovative remediation strategies for polluted soils is covered

trapping effects in iii v devices pose a great challenge to any microwave device modeler understanding their physical origins is of prime importance to create physics related reliable device models the treatment of trapping phenomena is commonly beyond the classical higher education level of communication engineers this book provides any basic material needed to understand trapping effects occurring primarily in gaas and gan power hemt devices as the text material covers interdisciplinary topics such as crystal defects and localized charges trap centers and trap dynamics deep level transient spectroscopy and trap centers in passivation layers the book will be of interest to graduate students of electrical engineering communication engineering and physics as well as materials device and circuit engineers in research and industry

this multi author work deals with the practical aspects of teratogens chemicals which cause birth defects it is designed for use as a unique guide to these chemicals in which one can find all relevant information the issues covered include how to obtain information about the teratogenic potential of chemicals teratogenic chemicals in undergraduate chemistry laboratories safe handling of teratogenic chemicals teratogenicity of pesticides and other pollutants in the environment occupational exposure and pregnancy outcome identification and prevention of reproductive hazards in industry and the long term effects of chemicals on the developing brain a list of approximately 5 000 chemicals known to cause reproductive effects is given a comprehensive bibliography is included with each chapter providing up to date references for more in depth coverage the monograph will be of interest to academic and industrial chemists health professionals as well as both undergraduate and graduate students in health and related sciences

this book explores the relationship between the content of chemistry education and the history and philosophy of science hps framework that underlies such education it discusses the need to present an image 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 professor of history of science harvard university in this stimulating and sophisticated blend of history of chemistry philosophy of science and science pedagogy professor mansoor niaz has succeeded in offering a promising new approach to the teaching of fundamental ideas in chemistry historians and philosophers of chemistry and above all chemistry teachers will find this book full of valuable and highly usable new ideas alan rocke case western reserve university this book artfully connects chemistry and chemistry education to the human context in which chemical science is practiced and the historical and philosophical background that illuminates that practice mansoor niaz deftly weaves together historical episodes in the quest for scientific knowledge with the psychology of learning and philosophical reflections on the nature of scientific knowledge and method the result is a compelling case for historically and philosophically informed science education highly recommended harvey siegel university of miami books that analyze the philosophy and history of science in chemistry are quite rare chemistry education and contributions from history and philosophy of science by mansoor niaz is one of the rare books on the history and philosophy of chemistry and their importance in teaching this science the book goes through all the main concepts of chemistry and analyzes the historical and philosophical developments as well as their reflections in textbooks closest to my heart is chapter 6 which is devoted to the chemical bond the glue that holds together all matter in our earth the chapter emphasizes the revolutionary impact of the concept of the covalent bond on the chemical community and the great novelty of the idea that was conceived 11 years before quantum mechanics was able to offer the mechanism of electron pairing and covalent bonding the author goes then to describe the emergence of two rival theories that explained the nature of the chemical bond in terms of quantum mechanics 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

this book explores the evolving nature of objectivity in the history of science and its implications for science education it is generally considered that objectivity certainty truth universality the scientific method and the accumulation of experimental data characterize both science and science education such universal values associated with science may be challenged while studying controversies in their original historical context the scientific enterprise is not characterized by objectivity or the scientific method but rather controversies alternative interpretations of data ambiguity and uncertainty although objectivity is not synonymous with truth or certainty it has eclipsed other epistemic virtues and to be objective is often used as a synonym for scientific recent scholarship in history and philosophy of science has shown that it is not the experimental data baconian orgy of quantification but rather the diversity plurality in a scientific discipline that contributes toward understanding objectivity history of science shows that objectivity and subjectivity can be considered as the two poles of a continuum and this dualism leads to a conflict in understanding the evolving nature of objectivity the history of objectivity is nothing less than the history of science itself and the evolving and varying forms of objectivity does not mean that one replaced the other in a sequence but rather each form supplements the others this book is remarkable for its insistence that the philosophy of science and in particular that discipline s analysis of objectivity as the supposed hallmark of the scientific method is of direct value to teachers of science meticulously yet in a most readable way mansoor niaz looks at the way objectivity has been dealt with over the years in influential educational journals and in textbooks it s fascinating how certain perspectives fade while basic questions show no sign of going away there are few books that take both philosophy and education seriously this one does roald hoffmann cornell university chemist writer and nobel laureate in chemistry

comprehensive organometallic chemistry comc iii third edition 13 volume set is aimed at the specialist and non specialist alike it covers the major developments in the field in a carefully presented way with extensive cross references comc iii provides a clear and comprehensive overview of developments since 1993 and attempts to predict trends in the field over the next ten years applications of organometallic chemistry continue to expand and this has been reflected by the significant increase in the number of volumes devoted to applications in comc iii organic chemists have edited the volumes on organometallic chemistry towards organic synthesis this is now organized by reaction type so as to be readily accessible to the organic community like its predecessors comc 1982 and comc ii 1995 this new work is the essential reference text for any chemist or technologist who needs to use or apply organometallic compounds also available online via sciencedirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy for more information pricing

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