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Issues and Challenges in Science Education ResearchSurface Complexation ModelingComputer Based Projects for a Chemistry CurriculumProcess Modeling, Simulation, and Environmental Applications in Chemical EngineeringNumerical Simulations of a Smectic Lamellar Phase of Amphiphilic MoleculesThe IT in Secondary Science BookAdvances in Chemical, Material and Metallurgical EngineeringChemistry EducationEnvironmental Applications of Geochemical ModelingInfoWorldPhysiologically-Based Pharmacokinetic (PBPK) Modeling and SimulationsThe Software FinderBiopharmaceutics Modeling and SimulationsThe Benefits and Costs of the Clean Air Act, 1990 to 2010Simulation and SimilarityExcel for ChemistsComputers in Chemical Education and ResearchVirtual Reality in Education: Breakthroughs in Research and PracticeNonlinear Computer Modeling of Chemical and Biochemical DataMulti-scale Quantum Models for Biocatalysis Kim Chwee Daniel Tan Athanasios K. Karamalidis Thomas J. Manning Bharat A. Bhanvase Claire Loison Roger Frost Jian Min Zeng Javier García-Martínez Chen Zhu Sheila Annie Peters Kiyohiko Sugano Michael Weisberg E. Joseph Billo E. Ludena Management Association, Information Resources James F. Rusling Darrin M. York

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in contemporary society science constitutes a significant part of human life in that it impacts on how people experience and understand the world and themselves the rapid advances in science and technology newly established societal and cultural norms and values and changes in the climate and environment as well as the depletion of natural resources all greatly impact the lives of children and youths and hence their ways of learning viewing the world experiencing phenomena around them and interacting with others these changes challenge science educators to rethink the epistemology and pedagogy in science classrooms today as the practice of science education needs to be proactive and relevant to students and prepare them for life in the

present and in the future featuring contributions from highly experienced and celebrated science educators as well as research perspectives from europe the usa asia and australia this book addresses theoretical and practical examples inscience education that on the one hand plays a key role in our understanding of the world and yet paradoxically now acknowledges a growing number of uncertainties of knowledge about the world the material is in four sections that cover the learning and teaching of science from science literacy to multiple representations science teacher education the use of innovations and new technologies in science teaching and learning and science learning in informal settings including outdoor environmental learning activities acknowledging the issues and challenges in science education this book hopes to generate collaborative discussions among scholars researchers and educators to develop critical and creative ways of science teaching to improve and enrich the lives of our children and youths

this book provides a description of the generalized two layer surface complexation model data treatment procedures and thermodynamic constants for sorption of metal cations and anions on gibbsite the most common form of aluminum oxide found in nature and one of the most abundant minerals in soils sediments and natural waters the book provides a synopsis of aluminum oxide forms and a clearly defined nomenclature compilations of available data for sorption of metal cations and anions on gibbsite are presented and the results of surface complexation model fitting of these data are given the consistency of the thermodynamic surface complexation constants extracted from the data is examined through development of linear free energy relationships which are also used to predict thermodynamic constants for ions for which insufficient data are available to extract constants the book concludes with a comparison of constants extracted from data for sorption on gibbsite with those determined previously for hydrous ferric oxide hfo hydrous manganese oxide hmo and goethite the overall objective of this book is the development and presentation of an internally consistent thermodynamic database for sorption of inorganic cations and anions on gibbsite an abundant and reactive mineral in soils sediments and aquatic systems its surface has a high affinity for sorption of metal cations and anions including radionuclides the gibbsite database will enable simulation and prediction of the influence of sorption on the fate of these chemical species in natural systems and treatment processes in which aluminum oxides are abundant it thus will help to advance the practical application of surface complexation modeling

this e book is a collection of exercises designed for students studying chemistry courses at a high school or undergraduate level the e book contains 24 chapters each containing various activities employing applications such as ms excel spreadsheets and spartan computational modeling each project is explained in a simple easy to understand manner the content within this book is suitable as a guide for both teachers and students and each chapter is supplemented with practice guidelines and exercises computer based projects for a chemistry curriculum therefore serves to bring computer based learning a much needed addition in line with modern educational trends to the chemistry classroom

in this valuable volume new and original research on various topics on chemical engineering and technology is presented on modeling and simulation material synthesis wastewater treatment analytical techniques and microreactors the research presented here can be applied to technology in food paper and pulp polymers petrochemicals surface coatings oil technology aspects among other uses the book is divided into five sections modeling and simulation

environmental applications materials and applications processes and applications analytical methods topics include modeling and simulation of chemical processes process integration and intensification separation processes advances in unit operations and processes chemical reaction engineering fuel and energy advanced materials cfd and transport processes wastewater treatment the valuable research presented here will be of interest to researchers scientists industry practitioners as well as upper level students

selected peer reviewed papers from the 2012 2nd international conference on chemical material and metallurgical engineering iccmme 2012 december 15 16 2012 kunming china

winner of the choice outstanding academic title 2017 award this comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching as well as the pivotal role of chemistry for shaping a more sustainable future adopting a practice oriented approach the current challenges and opportunities posed by chemistry education are critically discussed highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them the main topics discussed include best practices project based education blended learning and the role of technology including e learning and science visualization hands on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively from experience chemistry professors to secondary school teachers from educators with no formal training in didactics to frustrated chemistry students

an application of geochemical modeling to environmental problems illustrated with case studies of real world environmental investigations

infoworld is targeted to senior it professionals content is segmented into channels and topic centers infoworld also celebrates people companies and projects

the only book dedicated to physiologically based pharmacokinetic modeling in pharmaceutical science physiologically based pharmacokinetic pbpk modeling has become increasingly widespread within the pharmaceutical industry over the last decade but without one dedicated book that provides the information researchers need to learn these new techniques its applications are severely limited describing the principles methods and applications of pbpk modeling as used in pharmaceutics physiologically based pharmacokinetic pbpk modeling and simulations fills this void connecting theory with practice the book explores the incredible potential of pbpk modeling for improving drug discovery and development comprised of two parts the book first provides a detailed and systematic treatment of the principles behind physiological modeling of pharmacokinetic processes inter individual variability and drug interactions for small molecule drugs and biologics the second part looks in greater detail at the powerful applications of pbpk to drug research designed for a wide audience encompassing readers looking for a brief overview of the field as well as those who need more detail the book includes a range of important learning aids featuring end of chapter keywords for easy reference a valuable asset for general or novice readers without a pbpk background along with an

extensive bibliography for those looking for further information physiologically based pharmacokinetic pbpk modeling and simulations is the essential single volume text on one of the hottest topics in the pharmaceutical sciences today

a comprehensive introduction to using modeling and simulation programs in drug discovery and development biopharmaceutical modeling has become integral to the design and development of new drugs influencing key aspects of the development process including drug substance design formulation design and toxicological exposure assessment biopharmaceutical modeling is now seen as the linchpin to a drug s future success and while there are a number of commercially available software programs for drug modeling there has not been a single resource guiding pharmaceutical professionals to the actual tools and practices needed to design and test safe drugs a guide to the basics of modeling and simulation programs biopharmaceutics modeling and simulations offers pharmaceutical scientists the keys to understanding how they work and are applied in creating drugs with desired medicinal properties beginning with a focus on the oral absorption of drugs the book discusses the central dogma of oral drug absorption the interplay of dissolution solubility and permeability of a drug which forms the basis of the biopharmaceutical classification system bcs the concept of drug concentration how to simulate key drug absorption processes the physiological and drug property data used for biopharmaceutical modeling reliable practices for reporting results with over 200 figures and illustrations and a peerless examination of all the key aspects of drug research including running and interpreting models validation and compound and formulation selection this reference seamlessly brings together the proven practical approaches essential to developing the safe and effective medicines of tomorrow

this book is an account of modeling and idealization in modern scientific practice focusing on concrete mathematical and computational models the main topics of this book are the nature of models the practice of modeling and the nature of the relationship between models and real world phenomena in order to elucidate the model world relationship weisberg develops a novel account of similarity called weighted feature matching

reviews from the first edition excel for chemists should be part ofany academic library offering courses and programs in chemistry there is no other book on the market that deals so thoroughly withthe application of excel for analyzing chemical data highlyrecommended for upper division undergraduates throughprofessionals choice i highly recommend this book treat yourself to it assign itto a class give it as a gift the nucleus chemists across all subdisciplines use excel to record data intabular form but few have learned to take full advantage of thescientific calculating power within this program excel is capableof helping chemists process analyze and present scientific data from the relatively simple to the highly complex excel for chemists second edition has beenrevised and updated not only to take into account the changes thatwere made in excel but also to incorporate an abundance of newexamples arranged in a user friendly format this book containsillustrations and examples of chemical applications useful howto boxes outlining how to accomplish complex tasks in excel andstep by step instructions for programming excel to automaterepetitive data processing tasks in addition tips are provided tospeed simplify and improve your use of excel included is acd rom usable in either macintosh or ibm windows environments withmany helpful spreadsheet templates macros and other tools entirely new chapters contained in this second editionfeature array formulas covered in depth in a separate chapter alongwith a

comprehensive review of using arrays in vba how to create a worksheet with controls such as optionbuttons check boxes or a list box an extensive list of shortcut keys over 250 for macintosh orpc is provided in the appendix whether as a text for students or as a reference for chemicalprofessionals in industry academia or government excel for chemists second edition providesa valuable resource for using excel to manage various chemicalcalculations

the impact of computers on all rea1ms of chemistry has been one of the most important factors in the deve10pment of this science during the last years in recognition of this fact in 1971 the first international conference on computers in chemi ca1 research and education was held at deka1b i11inois usa a second conference took p1ace in ljub1jana yugos1avia in 1973 and this third conference in caracas venezuela in 1976 the aim of these conferences was to provide a high level forum for the 1eading researchers to exchange information at the frontiers of present day computer app1ications to the different fie1ds of chemistry the present third international conference on computers in chemica1 research education and techno10gy whose proceedings are pub1ished in the present vo1ume was conceived by means of aseries of invited 1ectures as a survey of the present date state of the art in some of the most relevant areas of computer app1ications in chemistry

modern technology has infiltrated many facets of society including educational environments through the use of virtual learning educational systems can become more efficient at teaching the student population and break down cost and distance barriers to reach populations that traditionally could not afford a good education virtual reality in education breakthroughs in research and practice is an essential reference source on the uses of virtual reality in k 12 and higher education classrooms with a focus on pedagogical and instructional outcomes and strategies highlighting a range of pertinent topics such as immersive virtual learning environments virtual laboratories and distance education this publication is an ideal reference source for pre service and in service teachers school administrators principles higher education faculty k 12 instructors policymakers and researchers interested in virtual reality incorporation in the classroom

assuming only background knowledge of algebra and elementary calculus and access to a modern personal computer nonlinear computer modeling of chemical and biochemical data presents the fundamental basis and procedures of data modeling by computer using nonlinear regression analysis bypassing the need for intermediary analytical stages this method allows for rapid analysis of highly complex processes thereby enabling reliable information to be extracted from raw experimental data by far the greater part of the book is devoted to selected applications of computer modeling to various experiments used in chemical and biochemical research the discussions include a short review of principles and models for each technique examples of computer modeling for real and theoretical data sets and examples from the literature specific to each instrumental technique the book also offers detailed tutorial on how to construct suitable models and a score list of appropriate mathematics software packages

multi scale quantum models for biocatalysis explores various molecular modelling techniques and their applications in providing an understanding of the detailed mechanisms at play during biocatalysis in enzyme and ribozyme systems these areas are reviewed by an international team of experts in theoretical

computational chemistry and biophysics this book presents detailed reviews concerning the development of various techniques including ab initio molecular dynamics density functional theory combined qm mm methods solvation models force field methods and free energy estimation techniques as well as successful applications of multi scale methods in the biocatalysis systems including several protein enzymes and ribozymes this book is an excellent source of information for research professionals involved in computational chemistry and physics material science nanotechnology rational drug design and molecular biology and for students exposed to these research areas

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