Author/rangsiman/page/5

Yeah, reviewing a book **author/rangsiman/page/5** could amass your near links listings. This is just one of the solutions for you to be successful. As understood, expertise does not suggest that you have astonishing points.

Comprehending as competently as harmony even more than other will provide each success. adjacent to, the proclamation as with ease as keenness of this author/rangsiman/page/5 can be taken as with ease as picked to act.

Free Energy Computations Tony Leli□vre 2010 This monograph provides a general introduction to advanced computational methods for free energy calculations, from the systematic and rigorous point of view of applied mathematics. Free energy calculations in molecular dynamics have become an outstanding and increasingly broad computational field in physics, chemistry and molecular biology within the past few years, by making possible the analysis of complex molecular systems. This work proposes a new, general and rigorous presentation, intended both for practitioners interested in a mathematical treatment, and for applied mathematicians interested in molecular dynamics.

Organic Reaction Mechanisms 2018 Mark G. Moloney 2021-08-17 Organic Reaction Mechanisms 2018, the 54th annual volume in this highly successful and unique series, surveys research on organic reaction mechanisms described in the available literature dated 2018. The following classes of organic reaction mechanisms are comprehensively reviewed: Reaction of Aldehydes and Ketones and their Derivatives Reactions of Carboxylic, Phosphoric, and Sulfonic Acids and their Derivatives Oxidation and Reduction Carbenes and Nitrenes Nucleophilic Aromatic Substitution Electrophilic Aromatic Substitution Carbocations Nucleophilic Aliphatic Substitution Carbanions and Electrophilic Aliphatic Substitution Elimination Reactions Polar Addition Reactions Cycloaddition Reactions Molecular Rearrangements Transition Metal Coupling Radical Reactions An experienced team of authors compile these reviews every year, so that the reader can rely on a continuing quality of selection and presentation.

Computational Science – ICCS 2018 Yong Shi 2018-06-11 The three-volume set LNCS 10860, 10861 + 10862 constitutes the proceedings of the 18th International Conference on Computational Science, ICCS 2018, held in Wuxi, China, in June 2018. The total of 155 full and 66 short papers presented in this book set was carefully reviewed and selected from 404 submissions. The papers were organized in topical sections named: Part I: ICCS Main Track Part II: Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning; Track of Architecture, Languages, Compilation and Hardware Support for Emerging ManYcore Systems; Track of Biomedical and Bioinformatics Challenges for Computer Science; Track of Computational Finance and Business Intelligence; Track of Computational Optimization, Modelling and Simulation; Track of Data, Modeling, and Computation in IoT and Smart Systems; Track of Data-Driven Computational Sciences; Track of Mathematical-Methods-and-Algorithms for Extreme Scale; Track of Multiscale Modelling and Simulation Part III: Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Poster Papers

Microfiltration and Ultrafiltration Zeman 2017-11-22 Integrates knowledge on microfiltration and ultrification, membrane chemistry, and characterization methods with the engineering and economic aspects of device performance, device and module design, processes, and applications. The text provides a discussion of membrane fundamentals and an analytical framework for designing and developing new filtrations systems for a broad range of technologically important functions. It offers information on membrane liquid precursors, fractal and stochastic pore space analysis, novel and advanced module designs, and original process design calculations.

Biomolecular Simulations Massimiliano Bonomi 2020-08-14 This volume explores the recent advancements in biomolecular simulations of proteins, small molecules, and nucleic acids, with a primary focus on classical molecular dynamics (MD) simulations at atomistic, coarse-grained, and quantum/ab-initio levels. The chapters in this book are divided into four parts: Part One looks at recent techniques used in the development of physic-chemical models of proteins, small molecules, nucleic acids, and lipids; Part Two discusses enhanced sampling and free-energy calculations; Part Three talks about integrative computational and experimental approaches for biomolecular simulations; and Part Four focuses on analyzing, visualizing, and comparing biomolecular simulations. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, Biomolecular Simulations: Methods and Protocols is a valuable resource for both novice and expert researchers who are interested in studying different areas of biomolecular simulations, and discovering new tools to progress their future projects.

Handbook of Polymer Crystallization Ewa Piorkowska 2013-07 "The only comprehensive reference on polymer crystallization, Handbook of Polymer Crystallization provides readers with a broad, in-depth guide on the subject, covering the numerous problems encountered during crystallization as well as solutions to resolve those problems to achieve the desired result."--Provided by publisher.

The Protein Folding Problem and Tertiary Structure Prediction Kenneth M.Jr. Merz 2012-12-06 A solution to the protein folding problem has eluded researchers for more than 30 years. The stakes are high. Such a solution will make 40,000 more tertiary structures available for immediate study by translating the DNA sequence information in the sequence databases into three-dimensional protein structures. This translation will be indispensable for the analy sis of results from the Human Genome Project, de novo protein design, and many other areas of biotechnological research. Finally, an in-depth study of the rules of protein folding should provide vital clues to the protein fold ing process. The search for these rules is therefore an important objective for theoretical molecular biology. Both experimental and theoretical ap proaches have been used in the search for a solution, with many promising results but no general solution. In recent years, there has been an exponen tial increase in the power of computers. This has triggered an incredible outburst of theoretical approaches to solving the protein folding problem ranging from molecular dynamics-based studies of proteins in solution to the actual prediction of protein structures from first principles. This volume attempts to present a concise overview of these advances. Adrian Roitberg and Ron Elber describe the locally enhanced sam pling/simulated annealing conformational search algorithm (Chapter 1), which is potentially useful for the rapid conformational search of larger molecular systems.

Mathematical Analysis With Applications Sandra Pinelas 2020-05-26 This proceedings volume covers research in key areas of applied mathematical analysis, and gathers works presented at the international conference “Concord-90,” in honor of the 90th birthday of Professor Constantin Corduneanu (1928-2018). The event – which Professor Corduneanu was able to attend – was held at Ural Federal University in Ekaterinburg, Russia, on July 26-28, 2018. Professor Corduneanu’s research in mathematical analysis spanned nearly seven decades and explored a range of important issues in the field, including studies of global existence, stability problems, and oscillation theory, with special emphasis on various classes of nonlinear equations. He published over two hundred articles and several books, including “Almost Periodic Oscillations and Waves” (Springer, 2009). In this volume the reader will find selected, peer-reviewed articles from seven fields of research – Differential Equations, Optimal Control and Stabilization; Stochastic Methods; Topology and Functions Approximation; Mathematical Biology and Bioinformatics; Mathematical Modeling in Mining; Mathematical Modeling in Economics; and Computer Science and Image Processing – which honor and reflect Professor Corduneanu’s legacy in the fields of oscillation, stability and control theory.

Soft Matter Systems for Biomedical Applications Leonid Bulavin 2021-09-27 This book addresses new challenges in soft matter and colloids. It presents timely reports on colloidal self-assembly, soft matters from liquid crystals, nanoparticles in liquid crystals, hydrocolloids, hybrid nanosystems, nanosuspensions, and dispersion of nanoparticles in different media, soft matter processing and modern experiments related with soft matters.

Khaki Capital Paul Chambers 2017

Computational Chemistry David Young 2004-04-07 A practical, easily accessible guide for bench-top chemists, thisbook focuses on accurately applying computational chemistrytechniques to everyday chemistry problems. Provides nonmathematical explanations of advanced topics incomputational chemistry. Focuses on when and how to apply different computationaltechniques. Addresses computational chemistry connections to biochemicalsystems and polymers. Provides a prioritized list of methods for attacking difficultcomputational chemistry problems, and compares advantages anddisadvantages of various approximation techniques. Describes how the choice of methods of software affectsrequirements for computer memory and processing time.

Multiplexed Imaging Eli Zamir 2021 This volume provides a collection of state-of-the-art approaches addressing key aspects of multiplexed imaging. Chapters focus on labeling and imaging techniques for multiplexed imaging, as well as on the application of these techniques for the study of cells and tissues. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Multiplexed Imaging: Methods and Protocols aims to be helpful for researchers interested in implementing multiplexed imaging or in developing novel, cutting-edge multiplexed imaging approaches.

Chemoinformatics Thomas Engel 2018-12-10 This essential guide to the knowledge and tools in the field includes everything from the basic concepts to modern methods, while also forming a bridge to bioinformatics. The textbook offers a very clear and didactical structure, starting from the basics and the theory, before going on to provide an overview of the methods. Learning is now even easier thanks to exercises at the end of each section or chapter. Software tools are explained in detail, so that the students not only learn the necessary theoretical background, but also how to use the different software packages available. The wide range of applications is presented in the corresponding book Applied Chemoinformatics - Achievements and Future Opportunities (ISBN 9783527342013). For Master and PhD students in chemistry, biochemistry and computer science, as well as providing an excellent introduction for other newcomers to the field.

Routledge Handbook of Contemporary Thailand Pavin Chachavalpongpun 2019-11-08 The Routledge Handbook of Contemporary Thailand is a timely survey and assessment of the state of contemporary Thailand. While Thailand has changed much in the past decades, this handbook proposes that many of its problems have remained intact or even persistent, particularly problems related to domestic politics. It underlines emerging issues at this critical juncture in the kingdom and focuses on the history, politics, economy, society, culture, religion and international relations of the country. A multidisciplinary approach, with chapters written by experts on Thailand, this handbook is divided into the following sections. History Political and economic landscape Social development International relations Designed for academics, students, libraries, policymakers and general readers in the field of Asian studies, political science, economics and sociology, this invaluable reference work provides an up-to-date account of Thailand and initiates new discussion for future research activities.

Machine Learning in Chemistry Hugh M Cartwright 2020-07-15 Progress in the application of machine learning (ML) to the physical and life sciences has been rapid. A decade ago, the method was mainly of interest to those in computer science departments, but more recently ML tools have been developed that show significant potential across wide areas of science. There is a growing consensus that ML software, and related areas of artificial intelligence, may, in due course, become as fundamental to scientific research as computers themselves. Yet a perception remains that ML is obscure or esoteric, that only computer scientists can really understand it, and that few meaningful applications in scientific research exist. This book challenges that view. With contributions from leading research groups, it presents in-depth examples to illustrate how ML can be applied to real chemical problems. Through these examples, the reader can both gain a feel for what ML can and cannot (so far) achieve, and also identify characteristics that might make a problem in physical science amenable to a ML approach. This text is a valuable resource for scientists who are intrigued by the power of machine learning and want to learn more about how it can be applied in their own field.

Essentials of Computational Chemistry Christopher J. Cramer 2013-04-29 Essentials of Computational Chemistry provides a balanced introduction to this dynamic subject. Suitable for both experimentalists and theorists, a wide range of samples and applications are included drawn from all key areas. The book carefully leads the reader thorough the necessary equations providing information explanations and reasoning where necessary and firmly placing each equation in context.

σ- and π-Hole Interactions Antonio Frontera 2021-03-30 This book describes unconventional noncovalent interactions and analyzes their importance for crystal growth in organic and hybrid organic–inorganic systems. Several examples illustrate how the combination of theory and experiment allows rationalizing the strength and directionality of noncovalent interactions. This book elegantly describes the results of a survey of X-ray structures of main group element compounds (M = Sn, Pb As, Sb, Bi, and Te) exhibiting intermolecular M•••Se noncovalent interactions in one of its chapters. Moreover, it provides a consistent description of noncovalent interactions, covering most groups of the periodic table. The interactions are described and discussed using their trivial names. That is, a comprehensive and accurate description is provided for alkali, alkaline earth, regium, spodium, triel, tetrel, pnictogen, chalcogen, halogen, and aerogen bonding interactions. No other book is available covering such an extensive number of interactions and examples where these interactions are relevant. relevant.

Transition Metals in Coordination Environments Ewa Broclawik 2019-03-16 This book focuses on the electronic properties of transition metals in coordination environments. These properties are responsible for the unique and intricate activity of transition metal sites in bio- and inorganic catalysis, but also pose challenges for both theoretical and experimental studies. Written by an international group of recognized experts, the book reviews recent advances in computational modeling and discusses their interplay using experiments. It covers a broad range of topics, including advanced computational methods for transition metal systems; spectroscopic, electrochemical and catalytic properties of transition metals in coordination environments; metalloenzymes and biomimetic compounds; and spin-related phenomena. As such, the book offers an invaluable resource for all researchers and postgraduate students interested in both fundamental and application-oriented research in the field of transition metal systems.

Catalysis for Clean Energy and Environmental Sustainability K. K. Pant 2021-05-13 This book is part of a two-volume work that offers a unique blend of information on realistic evaluations of catalyst-based synthesis processes using green chemistry principles and the environmental sustainability applications of such processes for biomass conversion, refining, and petrochemical production. The volumes provide a comprehensive resource of state-of-the-art technologies and green chemistry methodologies from researchers, academics, and chemical and manufacturing industrial scientists. The work will be of interest to professors, researchers, and practitioners in clean energy catalysis, green chemistry, chemical engineering and manufacturing, and environmental sustainability. This volume focuses on the potentials, recent advances, and future prospects of catalysis for biomass conversion and value-added chemicals production via green catalytic routes. Readers are presented with a mechanistic framework assessing the development of product selective catalytic processes for biomass and biomass-derived feedstock conversion. The book offers a unique combination of contributions from experts working on both lab-scale and industrial catalytic processes and provides insight into the use of various catalytic materials (e.g., mineral acids, heteropolyacid, metal catalysts, zeolites, metal oxides) for clean energy production and environmental sustainability.

Classical and Quantum Dynamics in Condensed Phase Simulations Bruce J Berne 1998-06-17 The school held at Villa Marigola, Lerici, Italy, in July 1997 was very much an educational experiment aimed not just at teaching a new generation of students the latest developments in computer simulation methods and theory, but also at bringing together researchers from the condensed matter computer simulation community, the biophysical chemistry community and the quantum dynamics community to confront the shared problem: the development of methods to treat the dynamics of quantum condensed phase systems. This volume collects the lectures delivered there. Due to the focus of the school, the contributions divide along natural lines into two broad groups: (1) the most sophisticated forms of the art of computer simulation, including biased phase space sampling schemes, methods which address the multiplicity of time scales in condensed phase problems, and static equilibrium methods for treating quantum systems; (2) the contributions on quantum dynamics, including methods for mixing quantum and classical dynamics in condensed phase simulations and methods capable of treating all degrees of freedom quantum-mechanically. Contents:Barrier Crossing: Classical Theory of Rare but Important Events (D Chandler)Monte Carlo Simulations (D Frenkel)Molecular Dynamics Methods for the Enhanced Sampling of Phase Space (B J Berne)Constrained and Nonequilibrium Molecular Dynamics (G Ciccotti & M Ferrario)From Erying to Kramers: Computation of Diffusive Barrier Crossing Rates (M J Ruiz-Montero)Monte Carlo Methods for Sampling of Rare Event States (W Janke)Proton Transfer in Ice (D Marx)Nudged Elastic Band Method for Finding Minimum Energy Paths of Transitions (H Jónsson et al.)RAW Quantum Transition State Theory (G Mills et al.)Dynamics of Peptide Folding (R Elber et al.)Theoretical Studies of Activated Processes in Biological Ion Channels (B Roux & S Crouzy)The Semiclassical Initial Value Representation for Including Quantum Effects in Molecular Dynamics Simulations (W H Miller)Tunneling in the Condensed Phase: Barrier Crossing and Dynamical Control (N Makri)Feynman Path Centroid Methods for Condensed Phase Quantum Dynamics (G A Voth)Quantum Molecular Dynamics Using Wigner Representation (V S Filinov et al.)Nonadiabatic Molecular Dynamics Methods for Diffusion (D Laria et al.)and other papers Readership: Computational and statistical physicists. Keywords:Quantum;Molecular Dynamics;DynamicsReviews: “… this volume is a useful introduction to currently popular, and widely-used techniques in chemical and statistical physics. The authors are well-respected researchers in the field and the level is appropriate to graduate students and researchers.” Journal of Statistical Physics

My Imaginary Boyfriend Patrick Rangsimant 2020-06-25 "If you leave it without saying goodbye,it will come back to deprive the life out of you."At first, Phai though that Klong was only his imaginary friend who stepped up to be an imaginary boyfriend. But seems like Klong doesn't want to be only imagination, he wants to be more even he has to do something terrible... This is a paranormal thriller romantic novel about Phai who falls in with his imaginary friend whom he left behind without saying goodbye since he was young. After the reunion with Klong, even Phai feels really happy but there is a feeling that touches at the back of his neck. It's fear. Because it's like in the bedtime rhyme said about the imaginary friend "If you leave it without saying goodbye,it will come back to deprive the life out of you."

Clusters and Nanomaterials Y. Kawazoe 2013-03-09 Synthesizing specific clusters as a component of useful nanostructures or controlling them as an assembly of nanocomposites is the ultimate aim. In order to understand how to synthesize individual clusters or to investigate its properties, a variety of first-principles and empirical calculations and related computer simulations have been performed alongside numerous experiments.

Chemical Analysis Francis Rouessac 2013-05-06 Completely revised and updated, Chemical Analysis: SecondEdition is an essential introduction to a wide range ofanalytical techniques and instruments. Assuming little in the wayof prior knowledge, this text carefully guides the reader throughthe more widely used and important techniques, whilst avoidingexcessive technical detail. Provides a thorough introduction to a wide range of the mostimportant and widely used instrumental techniques Maintains a careful balance between depth and breadth ofcoverage Includes examples, problems and their solutions Includes coverage of latest developments includingsupercritical fluid chromatography and capillaryelectrophoresis

I Wanna Text You Up Teagan Hunter 2018-01-28 When I put up a ROOMMATE WANTED poster, he was the last person on earth I thought would respond.He was also the last person on earth I'd agree to let live with me...on purpose.But, here we are-roommates. I'm certain we can coexist without it being awkward, and I'm determined to make it work. There will be no sexual tension building with each accidental touch, no flutters when he wears that stupid backward baseball cap, and definitely no flirting when we text back and forth.Caleb Mills can't be the guy for me. He's my best friend's ex-boyfriend.And that would be wrong...right?

Modern Quantum Chemistry Attila Szabo 2012-06-08 This graduate-level text explains the modern in-depth approaches to the calculation of electronic structure and the properties of molecules. Largely self-contained, it features more than 150 exercises. 1989 edition.

FUTURE FORWARD DUNCAN. CHATTHARAKUL MCCARGO (ANYARAT.) 2020

Biomarkers in Psychiatry Judith Pratt 2019-01-05 This volume addresses one of the Holy Grails in Psychiatry, namely the evidence for and potential to adopt ‘Biomarkers’ for prevention, diagnosis, and treatment responses in mental health conditions. It meshes together state of the art research from international renowned pre-clinical and clinical scientists to illustrate how the fields of anxiety disorders, depression, psychotic disorders, and autism spectrum disorder have advanced in recent years.

Plasma Catalysis Annemie Bogaerts 2019-04-02 Plasma catalysis is gaining increasing interest for various gas conversion applications, such as CO2 conversion into value-added chemicals and fuels, N2 fixation for the synthesis of NH3 or NOx, methane conversion into higher hydrocarbons or oxygenates. It is also widely used for air pollution control (e.g., VOC remediation). Plasma catalysis allows thermodynamically difficult reactions to proceed at ambient pressure and temperature, due to activation of the gas molecules by energetic electrons created in the plasma. However, plasma is very reactive but not selective, and thus a catalyst is needed to improve the selectivity. In spite of the growing interest in plasma catalysis, the underlying mechanisms of the (possible) synergy between plasma and catalyst are not yet fully understood. Indeed, plasma catalysis is quite complicated, as the plasma will affect the catalyst and vice versa. Moreover, due to the reactive plasma environment, the most suitable catalysts will probably be different from thermal catalysts. More research is needed to better understand the plasma–catalyst interactions, in order to further improve the applications.

The Thaksinization of Thailand Duncan McCargo 2005 A major reform package was enacted in Thailand in 1997, coinciding with the promulgation of a new constitution. However, the country's financial problems helped create the conditions for the emergence of the Thai Rak Thai (Thais Love Thai, or TRT) Party under the leadership of Thaksin Shinawatra, a wealthy telecommunications magnate. Since winning a landslide election victory in 2001, Prime Minister Thaksin has exercised an extraordinary degree of personal dominance over the Thai political scene. This book examines the emergence of the TRT; Thaksin's background; his business activities, relationship with the military, use of rhetoric, and wider political economy networks; and the future of Thai politics.

Machine Learning Meets Quantum Physics Kristof T. Schütt 2020-06-03 Designing molecules and materials with desired properties is an important prerequisite for advancing technology in our modern societies. This requires both the ability to calculate accurate microscopic properties, such as energies, forces and electrostatic multipoles of specific configurations, as well as efficient sampling of potential energy surfaces to obtain corresponding macroscopic properties. Tools that can provide this are accurate first-principles calculations rooted in quantum mechanics, and statistical mechanics, respectively. Unfortunately, they come at a high computational cost that prohibits calculations for large systems and long time-scales, thus presenting a severe bottleneck both for searching the vast chemical compound space and the stupendously many dynamical configurations that a molecule can assume. To overcome this challenge, recently there have been increased efforts to accelerate quantum simulations with machine learning (ML). This emerging interdisciplinary community encompasses chemists, material scientists, physicists, mathematicians and computer scientists, joining forces to contribute to the exciting hot topic of progressing machine learning and AI for molecules and materials. The book that has emerged from a series of workshops provides a snapshot of this rapidly developing field. It contains tutorial material explaining the relevant foundations needed in chemistry, physics as well as machine learning to give an easy starting point for interested readers. In addition, a number of research papers defining the current state-of-the-art are included. The book has five parts (Fundamentals, Incorporating Prior Knowledge, Deep Learning of Atomistic Representations, Atomistic Simulations and Discovery and Design), each prefaced by editorial commentary that puts the respective parts into a broader scientific context.

Interactions in Molecules Sigrid D. Peyerimhoff 2003-05-08 Experimentalists and theoreticians from chemistry and physics present various interactions in molecules using methods of chemical synthesis, structural analysis, spectroscopy and quantum chemical computations. This work constitutes an important basis in the investigation of increasingly more complex systems such as the study of the action of drugs in pharmaceutical research. The book gives an excellent survey for the specialist and also a welcome introduction for the advanced graduate student and the researcher in neighboring fields.

2gether vol. 2 (□□□□□□□□□□□□□ 2 English Version) JittiRain / maggie mae 2020-06-19 " My name is Tine (a super chic guy), and I’ve gone out with all kinds of girls. A nerdy girl, a cute, innocent girl, or even a super grouchy girl. But then my joyous life has to come to a stop when the mighty god in the form of university admission sends me to a northern university where I get to meet… “Tine, Teepakorn, first-year Law student, I like you!” Just the beginning of the first semester, someone already confesses to me. Am I surprised? Am I excited? Nah. Well, I’m such a cool guy, you know. But am I horrified? Hell yes! Because the one who just confessed to me is a dude!! My heart… The mission to shake off this huge gay dude out of my chic life starts with finding someone hella hot to be my fake boyfriend. And nobody fits the role as much as Sarawat, the nation’s husband of our university. But things aren’t as easy as I expected. This guy is a pain in the ass. He’s playing hard to get, not cooperating with me. Ha, I won’t give up that easily! Constant dropping wears away a stone. I’ll stick with him like a suckerfish. Just wait and see! But…as I’m pestering him, why the heck is my super chic heart starting to flutter when I’m with this straight-faced dude…? " keyword: □□□□□, □□□□□□□□, Thai novel, Thai ebook, hytexts, □□□□□□□, jamsaieverypub

Problem-Solving Therapy Thomas D'Zurilla, PhD 2006-09-18 MAXIMIZE POSITIVE PATIENT OUTCOMES Enhance Function--Avert Relapses--Present New Problems In this new updated edition, authors Thomas J. D'Zurilla and Arthur M. Nezu, present some of the most useful advances in problem-solving therapy (PST) today. An excellent resource for maximizing positive patient outcomes, this all-inclusive guide helps enhance your problem solving skills and apply successful clinical techniques to help your clients improve their lives. Known for its presentation of solid research results and effective PST training tools, this best-selling guide has been fully updated to include: NEW research data on social problem solving and adjustment NEW studies on the efficacy of PST NEW social problem solving models NEW updated and more user-friendly therapist's training manual Written for a wide audience, from therapists and counselors to psychologists and social workers, this highly readable and practical reference is a must-have guide to helping your patients identify and resolve current life problems. The book set is designed to be read alongside its informal "manual" accompaniment, Solving Life's Problems: A 5-Step Guide to Enhanced Well-Being by D'Zurilla, Nezu, and Christine Maguth Nezu. Purchase of the two books as a set will get you these life-changing texts at an $7.00 savings over the two books bought individually.

Middle Range Theories Sandra J. Peterson 2009 This groundbreaking text is the most complete and detailed book devoted to middle-range theories and their applications in clinical nursing research. The book thoroughly explains the process of selecting an appropriate theory for a particular nursing research study and sets forth criteria for critiquing theories. Each chapter includes examples of research using middle-range theories, definitions of key terms, analysis exercises, reference lists, and relevant Websites. Instruments are presented in appendices. New features of this edition include analysis questions for all theories; new chapters on learning theory and physiologic middle-range theories; "Part" introductions to frame the selection process for each middle-range theory chosen; and a glossary of terms.

Spin Crossover in Transition Metal Compounds 2004

Ab Initio Molecular Dynamics Dominik Marx 2009-04-30 Ab initio molecular dynamics revolutionized the field of realistic computer simulation of complex molecular systems and processes, including chemical reactions, by unifying molecular dynamics and electronic structure theory. This book provides the first coherent presentation of this rapidly growing field, covering a vast range of methods and their applications, from basic theory to advanced methods. This fascinating text for graduate students and researchers contains systematic derivations of various ab initio molecular dynamics techniques to enable readers to understand and assess the merits and drawbacks of commonly used methods. It also discusses the special features of the widely used Car–Parrinello approach, correcting various misconceptions currently found in research literature. The book contains pseudo-code and program layout for typical plane wave electronic structure codes, allowing newcomers to the field to understand commonly used program packages and enabling developers to improve and add new features in their code.

Concepts and Methods of 2D Infrared Spectroscopy Peter Hamm 2011-02-24 2D infrared (IR) spectroscopy is a cutting-edge technique, with applications in subjects as diverse as the energy sciences, biophysics and physical chemistry. This book introduces the essential concepts of 2D IR spectroscopy step-by-step to build an intuitive and in-depth understanding of the method. This unique book introduces the mathematical formalism in a simple manner, examines the design considerations for implementing the methods in the laboratory, and contains working computer code to simulate 2D IR spectra and exercises to illustrate involved concepts. Readers will learn how to accurately interpret 2D IR spectra, design their own spectrometer and invent their own pulse sequences. It is an excellent starting point for graduate students and researchers new to this exciting field. Computer codes and answers to the exercises can be downloaded from the authors' website, available at www.cambridge.org/9781107000056.

Date Palm Fiber Composites Mohamad Midani 2020-11-11 This book covers the recent research advances on the utilization of date palm fibers as a new source of cellulosic fibers that can be used in the reinforcement of polymer composites. It discusses the competitive mechanical, physical, and chemical properties which make date palm fibers stand out as an alternative to other fibers currently used in the natural fiber composites market. This volume will be useful to researchers working on natural fiber composites and fiber reinforced composites looking to develop green, biodegradable and sustainable components for application in automotive, marine, aerospace, construction, wind energy and consumer goods sectors.

Current Issues In Nursing - E-Book Perle Slavik Cowen 2014-04-14 Current Issues in Nursing provides a forum for knowledgeable debate on the important issues that nurses face today. This resource provides the opportunity to analyze conflicting viewpoints and develop your own thoughts on demands being made for the nursing profession and the difficult issues affecting today's health care delivery. Continually praised for its in-depth discussion of critical issues, solid organization of material, and encouragement of independent thinking, you’ll find this text a valuable resource in the modern world of nursing. Offers comprehensive and timely coverage of the issues affecting nursing education and practice. UNIQUE! Over 100 well-known contributors offer their expert insights and analysis. UNIQUE! Viewpoint chapters present controversial issues to showcase pressing issues facing nursing today. New content covering the following topics: The Challenges of Nursing on an International Level Health Care Systems and Practice Ethics, Legal, and Social Issues The Changing Practice Professional Challenges, Collaboration, & Conflict Violence Prevention and Care: Nursing’s Role Definitions of Nursing Changing Education

Cherry Magic! Thirty Years of Virginity Can Make You a Wizard?! 1 Yuu Toyota 2020-03-10 It's complicated: A thirty-year-old virgin gets more than he bargained for when his newfound magical power reveals he's the object of his male coworker's affections! Adachi, a thirty-year-old virgin, discovers he has the magical power to read the minds of people he touches. Unfortunately, the ability just makes him miserable since he doesn't know how to use it well! And to make matters worse, when he accidentally reads the mind of his very competent, handsome colleague, Adachi discovers the guy has a raging crush on none other than Adachi himself! Things are about to get VERY awkward!