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Monographic Series Oxford University Press

As illustrated by their award from the American Institute of Chemical Engineers for the best overall performance at the Fluid Simulation Challenge 2004, the authors are recognized experts in Monte Carlo simulation techniques, which they use to address equilibrium properties. This book presents these techniques in sufficient detail for readers to understand how simulation works, and describes many applications for industrially relevant problems. The book is primarily dedicated to chemical engineers who are not yet conversant with molecular simulation techniques. In addition, specialists in molecular simulation will be interested in the large scope of applications presented (including fluid properties, fluid phase equilibria, adsorption in zeolites, etc.).

Human Diseases Univ Science Books

Includes entries for maps and atlases.

National Union Catalog Univ Science Books

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Statistical Thermodynamics CRC Press

Covers the principles of quantum mechanics and engages those principles in the development of thermodynamics. Coverage includes the properties of gases, the First Law of Thermodynamics, a molecular interpretation of the principal thermodynamic state functions, solutions, non equilibrium thermodynamics, and electrochemistry. Features 10-12 worked examples and some 60 problems for each chapter. A separate Solutions Manual is forthcoming in April 1999. Annotation copyrighted by Book News, Inc., Portland, OR

Analysis of Genes and Genomes Elsevier

Statistical Mechanics Statistical Mechanics Sterling Publishing Company

Statistical Thermodynamics McGraw-Hill Education

"Exploring Egypt's lost underworld for the first time"--Cover.

Subject Catalog Alpha Science Int'l Ltd.

Written by Ira Levine, the Student Solutions Manual contains the worked-out solutions to all of the problems in the text. The purpose of the manual is help the student learn physical chemistry and as an incentive to work problems, not as a way to avoid working problems.

Past and Present, Historical and Biographical Cambridge University Press

This book presents a comprehensive overview of microrheology, emphasizing the underlying theory, practical aspects of its implementation, and current applications to rheological studies in academic and industrial laboratories. The field of microrheology continues to evolve rapidly, and applications are expanding at an accelerating pace. Readers will learn about the key methods and techniques, including important considerations to be made with respect to the materials most amenable to

microrheological characterization and pitfalls to avoid in measurements and analysis.

Microrheological measurements can be as straightforward as video microscopy recordings of colloidal particle Brownian motion; these simple experiments can yield rich rheological information. Microrheology covers topics ranging from active microrheology using laser or magnetic tweezers to passive microrheology, such as multiple particle tracking and tracer particle microrheology with diffusing wave spectroscopy. Overall, this introduction to microrheology informs those seeking to incorporate these methods into their own research, or simply survey and understand the growing body of microrheology literature. Many sources of archival literature are consolidated into an accessible volume for rheologist and non-specialist alike. The small sample sizes of many microrheology experiments have made it an important method for studying emerging and scarce biological materials, making this characterization method suitable for application in a variety of fields.

Combustion Calorimetry Oxford University Press

Analysis of GenesA and Genomes is a clear introduction to the theoretical and practical basis of genetic engineering, gene cloning and molecular biology. All aspects of genetic engineering in the post-genomic era are covered, beginning with the basics of DNA structure and DNA metabolism. Using an example-driven approach, the fundamentals of creating mutations in DNA, cloning in bacteria, yeast, plants and animals are all clearly presented. Newer technologies such as DNA macro and microarrays, proteomics and bioinformatics are introduced in later chapters helping students to analyse and understand the vast amounts of data that are now available through genome sequence and function projects. Aimed at students with a basic knowledge of the molecular side of biology, this will be invaluable to those looking to better understand the complexities and capabilities of these important new technologies. A modern post-genome era introduction to key techniques used in genetic engineering. An example driven past-to-present approach to allow the experiments of today to be placed in an historical context Beautifully illustrated in full colour throughout. Associated website including updates, additional content and illustrations

Statistical Mechanics Wiley Global Education

This textbook covers the basic principles of statistical physics and thermodynamics. The text is pitched at the level equivalent to first-year graduate studies or advanced undergraduate studies. It presents the subject in a straightforward and lively manner. After reviewing the basic probability theory of classical thermodynamics, the author addresses the standard topics of statistical physics. The text demonstrates their relevance in other scientific fields using clear and explicit examples. Later chapters introduce phase transitions, critical phenomena and non-equilibrium phenomena.

Catalog of Copyright Entries, Third Series World Scientific Publishing Company

A leisurely but mathematically honest presentation of quantum mechanics for graduate students in mathematics with an interest in physics.

Solutions to Problems University Science Books

Publisher Provided Annotation. This concise, easy to use reference includes all the essentials of human disease & pathophysiology. It includes the need-to-know information for health professionals.

Its concise, consistent approach includes a review of anatomy & physiology as well as an introduction to the most common diseases. * Presents diseases & disorders consistently through description, signs & symptoms, diagnosis, treatment, & prognosis * Extensive full-color art program visually reinforces the written material * "Healthy Highlight" feature focuses on health promotion * Organized by body system * Glossary includes phonetic pronunciations * Effects of aging sections identify diseases & disorders specific to lifespan development.

A Primer for Mathematicians HarperCollins Publishers

Experimental Chemical Thermodynamics, Volume 1: Combustion Calorimetry covers the advances in calorimetric study of combustion, with particular emphasis on the accuracy of the method. This book is composed of 18 chapters, and begins with a presentation of the units and physical constants with the basic units of measurements. The succeeding chapters deal with basic principles of combustion calorimetry, emphasizing the underlying basic principles of measurement. These topics are followed by discussions on calibration of combustion calorimeters, test and auxiliary substances in combustion calorimetry, strategies in the calculation of standard-state energies of combustion from the experimentally determined quantities, and assignment of uncertainties. The final chapter considers the history of combustion calorimetry. This book will prove useful to combustion chemists and engineers, as well as researchers in the allied fields.

Physical Chemistry, 4th Edition Springer

The title is a perfect description. Arranged alphabetically this book explains the words and phrases that crop up in thermodynamics. The author does this without resorting to pages of mathematics and algebra: the author's main aim is to explain and clarify the jargon and concepts.

Thermodynamics is often difficult and confusing for students. The author knows this after 20 years of teaching and does something about it with this dictionary.

A to Z of Thermodynamics Editions TECHNIP

Statistical Mechanics is a renowned and accessible introduction to the subject, containing a large number of chapter-ending problems for students.

Library of Congress Catalogs Oxford University Press on Demand

"Atoms First seems to be the flavor of the year in chemistry textbooks, but many of them seem to be little more than rearrangement of the chapters. It takes a master like McQuarrie to go back to the drawing board and create a logical development from smallest to largest that makes sense to students."---Hal Harris, University of Missouri-St. Louis "McQuarrie's book is extremely well written, the order of topics is logical, and it does a great job with both introductory material and more advanced concepts. Students of all skill levels will be able to learn from this book."---Mark Kearley, Florida State University This new fourth edition of General Chemistry takes an atoms-first approach from beginning to end. In the tradition of McQuarrie's many previous works, it promises to be another ground-breaking text. This superb new book combines the clear writing and wonderful problems that have made McQuarrie famous among chemistry professors and students worldwide. Presented in an elegant design with all-new illustrations, it is available in a soft-cover edition to offer professors a fresh choice at an outstanding value. Student supplements include an online series of

descriptive chemistry Interchapters, a Student Solutions Manual, and an optional state-of-the-art Online Homework program. For adopting professors, an Instructor's Manual and a CD of the art are also available.

General Chemistry Sterling Publishing Company

Discusses the basic law of statistical physics and their applications to a range of interesting problems. In this title, the basic principles of equilibrium statistical mechanics are clearly formulated and applied to specific examples of ideal gases and interacting systems to bring out their strength and scope.

Introductory Statistical Mechanics Sterling Publishing Company

Statistical mechanics is concerned with defining the thermodynamic properties of a macroscopic sample in terms of the properties of the microscopic systems of which it is composed. The previous book Introduction to Statistical Mechanics provided a clear, logical, and self-contained treatment of equilibrium statistical mechanics starting from Boltzmann's two statistical assumptions, and presented a wide variety of applications to diverse physical assemblies. An appendix provided an introduction to non-equilibrium statistical mechanics through the Boltzmann equation and its extensions. The coverage in that book was enhanced and extended through the inclusion of many accessible problems. The current book provides solutions to those problems. These texts assume only introductory courses in classical and quantum mechanics, as well as familiarity with multi-variable calculus and the essentials of complex analysis. Some knowledge of thermodynamics is also assumed, although the analysis starts with an appropriate review of that topic. The targeted audience is first-year graduate students and advanced undergraduates, in physics, chemistry, and the related physical sciences. The goal of these texts is to help the reader obtain a clear working knowledge of the very useful and powerful methods of equilibrium statistical mechanics and to enhance the understanding and appreciation of the more advanced texts.

Applications of Molecular Simulation in the Oil and Gas Industry Springer Science & Business Media

An understanding of statistical thermodynamic molecular theory is fundamental to the appreciation of molecular solutions. This complex subject has been simplified by the authors with down-to-earth presentations of molecular theory. Using the potential distribution theorem (PDT) as the basis, the text provides a discussion of practical theories in conjunction with simulation results. The authors discuss the field in a concise and simple manner, illustrating the text with useful models of solution thermodynamics and numerous exercises. Modern quasi-chemical theories that permit statistical thermodynamic properties to be studied on the basis of electronic structure calculations are given extended development, as is the testing of those theoretical results with ab initio molecular dynamics simulations. The book is intended for students taking up research problems of molecular science in chemistry, chemical engineering, biochemistry, pharmaceutical chemistry, nanotechnology and biotechnology.

Cambridge University Press

Intended for upper-level undergraduate and graduate courses in chemistry, physics, mathematics and engineering, this text is also suitable as a reference for advanced students in the physical sciences. Detailed problems and worked examples are included.

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