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Molecular Driving Forces, Second Edition E-book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes. It demonstrates how the complex behaviors of molecules can result from a few simple physical processes, and how simple models provide surprisingly accurate insights into the workings of the molecular world. Widely adopted in its First Edition, Molecular Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts. The Second Edition includes two brand new chapters: (1) "Microscopic Dynamics" introduces single molecule experiments; and (2) "Molecular Machines" considers how nanoscale machines and engines work. "The Logic of Thermodynamics" has been expanded to its own chapter and now covers heat, work, processes, pathways, and cycles. New practical applications, examples, and end-of-chapter questions are integrated throughout the revised and updated text, exploring topics in biology, environmental and energy science, and nanotechnology. Written in a clear and reader-friendly style, the book provides an excellent introduction to the subject for novices while remaining a valuable resource for experts.

This text shows how many complex behaviors of molecules can result from a few simple physical processes. A central theme is the idea that simplistic models can give surprisingly accurate insights into the workings of the molecular world. Written in a clear and student-friendly style, the book gives an excellent introduction to the field for novices. It should also be useful to those who want to refresh their understanding of this important field, and those interested in seeing how physical principles can be applied to the study of problems in the chemical, biological, and material sciences. Furthermore, Molecular Driving Forces contains a number of features including: 449 carefully produced figures illustrating the subject matter; 178 worked examples in the chapters which explain the key concepts and show their practical applications; The text is mathematically self-contained, with 'mathematical toolkits' providing the required maths; Advanced material that might not be suitable for some elementary courses is clearly delineated in the text; End-of-chapter references and suggestions for further reading.

Authoritative summary introduces basics, explores environmental variables, examines binding on macromolecules and aggregation, and includes brief summaries of electric and magnetic fields, spherical drops and bubbles, and polydisperse systems. 1963 and 1964 editions.

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Enrico Di Cera, a rising star in biophysics, has organized a superb group of authors to write substantial chapters covering the most exciting and central issues relating to the bioenergetic aspects of proteins, nucleic acids, and their interactions. Topics covered in this book are protein and nucleic acid folding and stability, enzyme-substrate interactions, prediction of the affinity of complexes, electrostatics, and non-equilibrium aspects of protein function. The breadth of the topics covered in this book illustrates the growing importance of thermodynamic approaches in the study of biological phenomena. The book should be of wide interest to biophysicists, biochemists, and structural biologists.

Learn classical thermodynamics alongside statistical mechanics and how macroscopic and microscopic ideas interweave with this fresh approach to the subjects.

Exploring the mechanical features of biological cells, including their architecture and stability, this textbook is a pedagogical introduction to the interdisciplinary fields of cell mechanics and soft matter physics from both experimental and theoretical perspectives. This second edition has been greatly updated and expanded, with new chapters on complex filaments, the cell division cycle, the mechanisms of control and organization in the cell, and fluctuation phenomena. The textbook is now in full color which enhances the diagrams and allows the inclusion of new microscopy images. With around 280 end-of-chapter exercises exploring further applications, this textbook is ideal for advanced undergraduate and graduate students in physics and biomedical engineering. A website hosted by the author contains extra support material, diagrams and lecture notes, and is available at www.cambridge.org/Boal.

This book is an introduction to statistical mechanics, intended for advanced undergraduate or beginning graduate students.

Complex systems that bridge the traditional disciplines of physics, chemistry, biology, and materials science can be studied at an unprecedented level of detail using increasingly sophisticated theoretical methodology and high-speed computers. The aim of this book is to prepare burgeoning users and developers to become active participants in this exciting and rapidly advancing research area by uniting for the first time, in one monograph, the basic concepts of equilibrium and time-dependent statistical mechanics with the modern techniques used to solve the complex problems that arise in real-world applications. The book contains a detailed review of classical and quantum mechanics, in-depth discussions of the most commonly used ensembles simultaneously with modern computational techniques such as molecular dynamics and Monte Carlo, and important topics including free-energy calculations, linear-response theory, harmonic baths and the generalized Langevin equation, critical phenomena, and advanced conformational sampling methods. Burgeoning users and developers are thus provided firm grounding to become active participants in this exciting and rapidly advancing research area, while experienced practitioners will find the book to be a useful reference tool for the field.

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