

Introduction To Modern Statistical Mechanics

Physical Chemistry Robert G. Mortimer
2000-04-28 This new edition of Robert G. Mortimer's *Physical Chemistry* has been thoroughly revised for use in a full year course in modern physical chemistry. In this edition, Mortimer has included recent developments in the theories of chemical reaction kinetics and molecular quantum mechanics, as well as in the experimental study of extremely rapid chemical reactions. While Mortimer has made substantial improvements in the selection and updating of topics, he has retained the clarity of presentation, the integration of description and theory, and the level of rigor that made the first edition so successful.* Emphasizes clarity; every aspect of the first edition has been examined and revised as needed to make the principles and applications of physical chemistry as clear as possible. * Proceeds from fundamental principles or postulates and shows how the consequences of these principles and postulates apply to the chemical and physical phenomena being studied.* Encourages the student not only to know the applications in physical chemistry but to understand where they come from.* Treats all topics relevant to undergraduate physical chemistry.

Phases of Matter and their Transitions

Gijsbertus de With 2023-10-25 *Phases of Matter and their Transitions* An all-in-one, comprehensive take on matter and its phase properties In *Phases of Matter and their Transitions*, accomplished materials scientist Dr. Gijsbertus de With delivers an accessible textbook for advanced students in the molecular sciences. It offers a balanced and self-contained treatment of the thermodynamic and structural aspects of phases and the transitions between them, covering solids, liquids, gases, and their interfaces. The book lays the groundwork to describe particles and their interactions from the perspective of classical and quantum mechanics and compares phenomenological and statistical thermodynamics. It also examines materials with special properties, like glasses, liquid crystals, and ferroelectrics. The author

has included an extensive appendix with a guide to the mathematics and theoretical models employed in this resource. Readers will also find: Thorough introductions to classical and quantum mechanics, intermolecular interactions, and continuum mechanics Comprehensive explorations of thermodynamics, gases, liquids, and solids Practical discussions of surfaces, including their general aspects for solids and liquids Fulsome treatments of discontinuous and continuous transitions, including discussions of irreversibility and the return to equilibrium Perfect for advanced students in chemistry and physics, *Phases of Matter and their Transitions* will also earn a place in the libraries of students of materials science.

The New Encyclopædia Britannica:

Macropædia : Knowledge in depth 2002

Paperbound Books in Print 1992

American Journal of Physics 2001

Simulation Based Free Energy Calculations and Drug Design Randall J. Radmer 1996

Introduction to Modern Statistical

Mechanics David Chandler 1987 Lectures on elementary statistical mechanics, taught at the University of Illinois and at the University of Pennsylvania.

Solutions Manual for Introduction to Modern Statistical Mechanics David Wu 1988

6th International Conference on New Theories, Discoveries and Applications of Superconductors and Related Materials 2007

Statistical Mechanics of Phases, Interfaces, and Thin Films Howard Ted Davis 1996

Development and Application of Theoretical Methods for the Analysis of Catalytic Reactions Anthony Joseph Goodrow 2009

The New Encyclopaedia Britannica: Macropaedia : Knowledge in depth 2005

General physics, relativity, astronomy and plasmas 1992

An Introduction to Thermal Physics Daniel V. Schroeder 2021 This is a textbook for the standard undergraduate-level course in thermal physics (sometimes called thermodynamics or statistical mechanics). Originally published in

1999, it quickly gained market share and has now been the most widely used English-language text for such courses, as taught in physics departments, for more than a decade. Its clear and accessible writing style has also made it popular among graduate students and professionals who want to gain a better understanding of thermal physics. The book explores applications to engineering, chemistry, biology, geology, atmospheric science, astrophysics, cosmology, and everyday life. It includes two appendices, reference data, an annotated bibliography, a complete index, and 486 homework problems.

New Technical Books 1926

New Encyclopædia Britannica: Macropædia 1997

Applications of the Cluster Expansion to Substitutional Disorder in Ternary and Hexagonal-close-packed Binary Alloys Ryan Patrick McCormack 1994

Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.) 2002

Monte Carlo and Molecular Dynamics of Condensed Matter Systems Kurt Binder 1996

An Introduction to the Dynamics of Airplanes H. Norman Abramson 1971

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