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Atkins' Physical Chemistry Peter William Atkins, Julio De Paula, James Keeler, 2023 Revised edition of Atkins' Physical Chemistry Peter Atkins, Julio de Paula, James Keeler Eleventh edition 2018. Concise Physical Chemistry Donald W. Rogers, 2011-03-31

This book is a physical chemistry textbook that presents the essentials of physical chemistry as a logical sequence from its most modest beginning to contemporary research topics. Many books currently on the market focus on the problem sets with a cursory treatment of the conceptual background and theoretical material, whereas this book is concerned only with the conceptual development of the subject. Comprised of 19 chapters, the book will address ideal gas laws, real gases, the thermodynamics of simple systems, thermochemistry, entropy, and the second law, the Gibbs free energy, equilibrium, statistical approaches to thermodynamics, the phase rule, chemical kinetics, liquids and solids, solution chemistry, conductivity, electrochemical cells, atomic theory, wave mechanics of simple systems, molecular orbital theory, experimental determination of molecular structure, and photochemistry, and the theory of chemical kinetics.

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Laser and Plasma Applications in Materials Science El Hachemi Amara, Djamila Bennaceur-Doumaz, 2011-04-19 Selected peer reviewed papers from the LAPAMS 2010 Algiers from 27th to 30th November 2010 **Books in Print Supplement**, 2002 Elements of Physical Chemistry Peter William Atkins, Julio De Paula, David Smith (Chemical

physicist), 2023 This revision of the introductory textbook of physical chemistry has been designed to broaden its appeal particularly to students with an interest in biological applications The Elements of Physical Chemistry Peter William Atkins, 2001 The author of the world's best-selling major physical chemistry textbook provides this ideal introduction to the discipline for one semester courses. It illustrates the broad timeless principles of physical chemistry while pointing out its applications to current research in the life sciences, engineering and other fields. The Elements of Physical Chemistry has been revised to provide an emphasis on biological applications Advances in Teaching Physical Chemistry Mark David Ellison, 2008 This book brings together the latest perspectives and ideas on teaching modern physical chemistry. It includes perspectives from experienced and well-known physical chemists, a thorough review of the education literature pertaining to physical chemistry, a thorough review of advances in undergraduate laboratory experiments from the past decade, in-depth descriptions of using computers to aid student learning and innovative ideas for teaching the fundamentals of physical chemistry. This book will provide valuable insight and information to all teachers of physical chemistry. Molecular Physics W. Demtröder, 2005-12-02 The richly illustrated book comprehensively explains the important principles of diatomic and polyatomic molecules and their spectra in two separate distinct parts. The first part concentrates on the theoretical aspects of molecular physics such as the vibration, rotation, electronic states, potential curves and spectra of molecules. The different methods of approximation for the calculation of electronic wave functions and their energy are also covered. The introduction of basic terms used in group theory and their meaning in molecular physics enables an elegant description of polyatomic molecules and their symmetries. Molecular spectra and the dynamic processes involved in their excited states are given its own chapter. The theoretical part then concludes with a discussion of the field of Van der Waals molecules and clusters. The second part is devoted entirely to experimental techniques such as laser, Fourier, NMR and ESR spectroscopies used in the fields of physics, chemistry, biology and material science. Time resolved measurements and the influence of chemical reactions by coherent controls are also treated. A list of general textbooks and specialized literature is provided for further reading. With specific examples, definitions and notes integrated within the text to aid understanding, this is suitable for undergraduates and graduates in physics and chemistry with a knowledge of atomic physics and familiar with the basics of quantum mechanics.

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