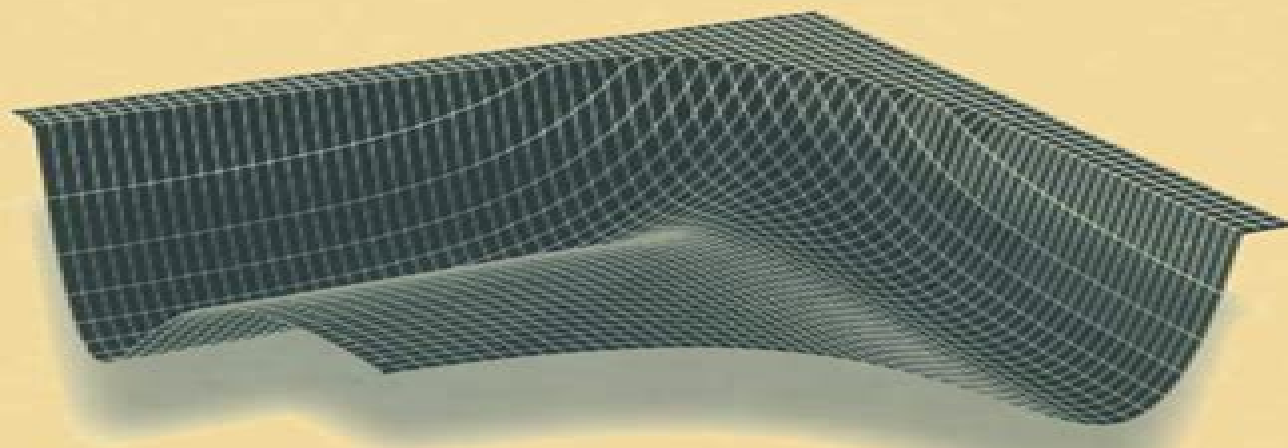


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Physical Chemistry in Depth Johannes Karl Fink,2009-09-16 Physical Chemistry in Depth is not a stand alone text but complements the text of any standard textbook on Physical Chemistry into depth having in mind to provide profound understanding of some of the topics presented in these textbooks Standard textbooks in Physical Chemistry start with thermodynamics deal with kinetics structure of matter etc The Physical Chemistry in Depth follows this adjustment but adds chapters that are treated traditionally in ordinary textbooks inadequately e g general scaling laws the graphlike structure of matter and cross connections between the individual disciplines of Physical Chemistry Admittedly the text is loaded with some mathematics which is a prerequisite to thoroughly understand the topics presented here However the mathematics needed is explained at a really low level so that no additional mathematical textbook is needed

Thermodynamics of Biochemical Reactions Robert A. Alberty,2005-01-14 Ein Lehr und Handbuch der Thermodynamik biochemischer Reaktionen mit modernen Beispielen und umfangreichen Hinweisen auf die Originalliteratur Schwerpunkt liegt auf Stoffwechsel und enzymkatalysierten Reaktionen Grundlagen der Thermodynamik z B chemisches Gleichgewicht werden anschaulich abgehandelt zu den speziellen Themen geh ren Reaktionen in Matrices Komplexbildungsgleichgewichte und Ligandenbindung Phasengleichgewichte Redoxreaktionen Kalorimetrie

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Försterling,2024-10-29 Core textbook showcasing the broad scope and coherence of physical chemistry *Principles of Physical Chemistry* introduces undergraduate students to the concepts and methods of physical chemistry which are fundamental to all of Chemistry In their unique approach the authors guide students along a logically consistent pathway from the principles of quantum mechanics and molecular structure to the properties of ensembles and supramolecular machines with many examples from biology and nanoscience By systematically proceeding from atoms to increasingly complex forms of matter the book elucidates the connection between recognizable paradigms and modern chemistry research in a student friendly manner To promote intuition and understanding for beginning students the text introduces concepts before proceeding to more rigorous treatments Rigorous proofs and derivations are provided as electronic supplements for more advanced students The book poses over 900 exercises and problems to help the student learn and master methods for physicochemical reasoning Computational supplementary material including Fortran simulations MathCAD exercises and Mathematica programs are included on a companion website Some topics discussed in the text are Electronic structure and Variational Principle including Pauli exclusion spin orbit interactions and electron confinement in quantum dots Chemical bonding and molecular structure including electron tunneling comparison of electron in a box models and electron orbital methods and the mechanics of chemical bonds Absorption and emission of light including transition dipoles for electron systems coupled chromophores excitons and chiroptical activity Statistical description of molecular ensembles including microscopic interpretations of phase transitions entropy work and heat Chemical equilibria including statistical description of equilibrium constants electrochemistry and the exposition of fundamental reaction types Reaction kinetics and reaction dynamics including nonlinear coupled reactions femtochemistry and solvent effects on reactions Physicochemical properties of macromolecules and the principles of supramolecular assemblies including polymer dynamics and chemical control of interfaces The logic of supramolecular machines and their manipulation of photon electron and nuclear motion With its highly coherent and systematic approach to the subject *Principles of Physical Chemistry* is an ideal textbook and resource for students in undergraduate physical chemistry courses especially those in programs of study related to chemistry engineering and molecular and chemical biology **Physical Chemistry** Robert G. Mortimer,2008-05-29 In this third edition core applications have been added along with more 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 Fully revised concise edition covering recent developments in the field Supports student learning with step by step explanation of

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