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For senior-level undergraduates and graduate students, each chapter presents the basic surface chemistry of the topics with full derivations, end-of-chapter problems, and reviews of recent advances. This book is also an excellent reference for professional chemists interested in applying surface chemistry to their work.

"Should be on every surface chemist's reading list." (Spectroscopy (on the Fifth Edition) Bridging the methodologies of "wet" and "dry" surface chemistry to present surface chemistry as a single broad field, Physical Chemistry of Surfaces, Sixth Edition retains its position as the standard work of surface science. This heavily revised and updated edition provides thorough coverage for students and professionals. New features of the Sixth Edition include: Expanded treatment of films at the liquid-air and liquid-solid interfaces, with contemporary techniques and macromolecular films Techniques for tunneling and atomic force scanning microscopes In-depth coverage of heterogeneous catalysis, including the case of CO on metals Increased emphasis on the flexible surface and restructuring of surfaces when adsorption occurs A new chapter on macromolecular films The book begins with the basics of the physical chemistry of liquid-gas and liquid-solid interfaces, including electro-chemistry, long-range forces, and the various methods of spectroscopic and structural study of surfaces. These are followed by descriptive treatments of topics such as friction, lubrication, adhesion and emulsion, foams, and aerosols. Closing chapters present a quantitative approach to physical and chemical adsorption of vapors and gases as well as heterogeneous catalysis. For senior-level undergraduates and graduate students, each chapter presents the basic surface chemistry of the topics with full derivations, end-of-chapter problems, and reviews of recent advances. This book is also an excellent reference for professional chemists interested in applying surface chemistry to their work.

A Textbook of Physical Chemistry, Second Edition serves as an introductory text to physical chemistry. Topics covered range from wave mechanics and chemical bonding to molecular spectroscopy and photochemistry; ideal and nonideal gases; the three laws of thermodynamics; thermochemistry; and solutions of nonelectrolytes. The kinetics of gas-phase reactions; colloids and macromolecules; and nuclear chemistry and radiochemistry are also discussed. This edition is comprised of 22 chapters; the first of which introduces the reader to the behavior of ideal and nonideal gases, with particular emphasis on the van der Waals equation. The discussion then turns to the kinetic molecular theory of gases and the application of the Boltzmann principle to the treatment of molar polarization; dipole and magnetic moments; the phenomenology of light absorption; and classical and statistical thermodynamics. The chapters that follow focus on the traditional sequence of chemical and phase equilibria, electrochemistry, and chemical kinetics in gas phase and solution phase. This book also considers wave mechanics and its applications; molecular spectroscopy and photochemistry; and the excited state, and then concludes with an analysis of crystal structure, colloid and polymer chemistry, and radio and nuclear chemistry. This reference material is intended primarily as an introductory text for students of physical chemistry.

For senior-level undergraduates and graduate students, each chapter presents the basic surface chemistry of the topics with full derivations, end-of-chapter problems, and reviews of recent advances. This book is also an excellent reference for professional chemists interested in applying surface chemistry to their work.

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