



PRINCIPLES OF PHYSICAL CHEMISTRY

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Lingjun Ying



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theory of reaction rates and its limitations Steric factor Activated complex theory Ionic reactions single and double sphere models Influence of solvent and ionic strength The comparison of collision and activated complex theory Chapter 4 Electrochemistry I Ion Ion Interactions The Debye Huckel theory of ion ion interactions Potential and excess charge density as a function of distance from the central ion Debye Huckel reciprocal length Ionic cloud and its contribution to the total potential Debye Huckel limiting law of activity coefficients and its limitations Ion size effect on potential Ion size parameter and the theoretical mean activity coefficient in the case of ionic clouds with finite sized ions Debye Huckel Onsager treatment for aqueous solutions and its limitations Debye Huckel Onsager theory for non aqueous solutions The solvent effect on the mobility at infinite dilution Equivalent conductivity vs concentration κ as a function of the solvent Effect of ion association upon conductivity Debye Huckel Bjerrum equation Chapter 5 Quantum Mechanics II Schrodinger wave equation for a particle in a three dimensional box The concept of degeneracy among energy levels for a particle in three dimensional box Schrodinger wave equation for a linear harmonic oscillator Zero point energy of a particle possessing harmonic motion and its consequence Schrodinger wave equation for three dimensional Rigid rotator Energy of rigid rotator Space quantization Schrodinger wave equation for hydrogen atom separation of variable in polar spherical coordinates and its solution Principle azimuthal and magnetic quantum numbers and the magnitude of their values Probability distribution function Radial distribution function Shape of atomic orbitals s p Law of mass action and its thermodynamic derivation Third law of thermodynamics Nernst heat theorem determination of absolute entropy unattainability of absolute zero and its limitation Phase diagram for two completely miscible components systems Eutectic systems Calculation of eutectic point Systems forming solid compounds Ax By with congruent and incongruent melting points Phase diagram and thermodynamic treatment of solid solutions Chapter 7 Chemical Dynamics II Chain reactions hydrogen bromine reaction pyrolysis of acetaldehyde decomposition of ethane Photochemical reactions hydrogen bromine General treatment of chain reactions ortho para hydrogen conversion and hydrogen bromine reactions Apparent activation energy of chain reactions Chain length Rice Herzfeld mechanism of organic molecules decomposition acetaldehyde Branching chain reactions and explosions H₂ O₂ reaction Kinetics of one intermediate enzymatic reaction Michaelis Menton treatment Evaluation of Michaelis's constant for enzyme substrate binding by Lineweaver Burk plot and Eadie Hofstae methods Competitive and non competitive inhibition Chapter 8 Electrochemistry II Ion Transport in Solutions Ionic movement under the influence of an electric field Mobility of ions Ionic drift velocity and its relation with current density Einstein relation between the absolute mobility and diffusion coefficient The Stokes Einstein relation The Nernst Einstein equation Walden's rule The Rate process approach to ionic migration The Rate process equation for equivalent conductivity Total driving force for ionic transport Nernst Planck Flux equation Ionic drift and diffusion potential the Onsager phenomenological equations The basic equation for the diffusion Planck Henderson equation for the diffusion potential

TEXTBOOK OF PHYSICAL CHEMISTRY H. K.

MOUDGIL,2014-10-21 This comprehensive textbook now in its second edition is mainly written as per the latest syllabi of physical chemistry of all the leading universities of India as well as the new syllabus recommended by the UGC This thoroughly revised and updated edition covers the principal areas of physical chemistry such as thermodynamics quantum chemistry molecular spectroscopy chemical kinetics electrochemistry and nanotechnology In a methodical and accessible style the book discusses classical irreversible and statistical thermodynamics and statistical mechanics and describes macroscopic chemical systems steady states and thermodynamics at a molecular level It elaborates the underlying principles of quantum mechanics molecular spectroscopy X ray crystallography and solid state chemistry along with their applications The book explains various instrumentation techniques such as potentiometry polarography voltammetry conductometry and coulometry It also describes kinetics rate laws and chemical processes at the electrodes In addition the text deals with chemistry of corrosion and nanomaterials This text is primarily designed for the undergraduate and postgraduate students of chemistry B Sc and M Sc for their course in physical chemistry Key Features Gives a thorough treatment to ensure a solid grasp of the material Presents a large number of figures and diagrams that help amplify key concepts Contains several worked out examples for better understanding of the subject matter Provides numerous chapter end exercises to foster conceptual understanding

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ENGINEERING CHEMISTRY FOR DIPLOMA RANJAN KUMAR MOHAPATRA,2014-09-10 This book is written strictly for the first and second semester diploma students of engineering chemistry according to the revised syllabus It aims to provide a thorough understanding of the chemical concepts theories and principles in Engineering Chemistry in a clear and concise manner so that the average students are able to grasp the intricacies of the subject Explaining general concepts of atomic structure and chemical bond the book covers all advanced topics such as acid base theory concentration of solutions electrochemistry corrosion metallurgy hydrocarbons sources of water and its treatment lubricants and adhesives fuel polymer and environmental chemistry Each theoretical concept is well supported by illustrative examples Besides the book provides a large number of solved problems to reinforce the theoretical

understanding of concepts Each chapter contains glossary terms and provides short questions and long questions for practice Previous year question papers and model questions with answers are appended at the end of the book to help students ace in examinations

ENGINEERING CHEMISTRY WITH LABORATORY EXPERIMENTS MOHAPATRA, RANJAN KUMAR, 2015-10-09 This book is primarily intended for the first year B Tech students of all branches for their course on engineering chemistry The main objective of this book is to provide a broad understanding of the chemical concepts theories and principles of Engineering Chemistry in a clear and concise manner so that even an average student can grasp the intricacies of the subject It includes the general concepts of structure and bonding phase rule solid state reaction kinetics and catalysis electrochemistry chemical thermodynamics and free energy Besides the book introduces topics of applied chemistry like water technology polymer chemistry and nanotechnology Each theoretical concept is well supported by illustrative examples The book also provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts

KEY FEATURES

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Nanostructured Ceramic Oxides for Supercapacitor Applications Avinash Balakrishnan, K.R.V. Subramanian, 2014-02-19 A fresh and innovative technology is currently being recognized as a viable replacement for batteries Research in the field of supercapacitors as well as in the area of ceramic materials and their application to supercapacitor development has spawned Nanostructured Ceramic Oxides for Supercapacitor Applications Featuring key contributions from well established experts this book highlights the field of high energy and power storage devices and considers the potential of nanostructured ceramic oxides for supercapacitors It explores the role of different ceramic oxide systems and their surface nano architecture in governing the efficacy of a supercapacitor and presents a detailed understanding of the basic design and science associated with nanostructured ceramic oxide based supercapacitors It examines the history and development of this promising energy system covering the fundamentals science and problems associated with this swiftly emerging field The book also looks extensively into different measurement techniques that can evaluate the performance of this device Presents an overview of a given field with examples chosen primarily for their educational purpose Provides exhaustive references at the end of each chapter Fits the background of various science and engineering disciplines Contains detailed mathematical analyses Each chapter includes several simple well illustrated

equations and schematic diagrams to augment the research topics and help the reader grasp the subject Background theories and techniques are introduced early on leading to the evolution of the field of nanostructured ceramic oxide based supercapacitors Nanostructured Ceramic Oxides for Supercapacitor Applications chronicles significant strides in device development and benefits seniors and graduate students studying physics electrical and computer engineering chemistry mechanical engineering materials science and nanotechnology

A Textbook of Physical Chemistry, 6th Edition Sharma K.K. & Sharma L.K.,2016 A Textbook of Physical Chemistry

Analytical Methods in Chemical Analysis Shikha Kaushik,Banty Kumar,2023-06-19 Analytical Chemistry is important and applied experimental field of science that employs different instruments and methods for the collection separation identification and quantification of various organic inorganic and biological molecules This interdisciplinary branch is based not only on chemistry but also on other disciplines such as biology physics pharmaceutical and many areas of technology The book is organized into six sections and provides information pertinent to the important techniques and methods employed in analytical chemistry It covers the basic concepts of qualitative and quantitative analysis spectrochemical methods of analysis along with thermal and electroanalytical methods Qualitative analysis identifies analytes while quantitative analysis determines the concentration or numerical amount of the molecules under study This book also exposes students to the different laws of spectroscopy and various electronic transitions that occur in the different regions of the electromagnetic spectra The main objective of this work is to develop an understanding and make learners familiar with the basic analytical methods employed in the chemical analysis of various compounds

Group Theory, Instrumentation Chemistry & Computer for Chemists Mr. Rohit Manglik,2023-05-23 Group theory and instrumentation are covered Guides students to analyze chemical systems fostering expertise in computational chemistry through practical applications and theoretical study

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Applications of Adsorption and Ion Exchange Chromatography in Waste Water Treatment Inamuddin,2017-06-01 The ion exchange process is a natural phenomenon and mankind has been using this technique since the early days of civilisation With the progress of technologies and concepts we got a better understanding of this technique and increased its application horizon Like in other research areas nanotechnology has also penetrated heavily into this field and has helped develop smart materials with better properties for application in adsorption and ion exchange chromatography A large amount of research was carried out in this field in the last few decades showing the importance of these materials and technologies Water treatment is receiving great attention worldwide due to the increasing demand of drinking water and hence the need to recycle polluted water sources Keeping this importance in mind this book Applications of Adsorption and Ion Exchange Chromatography in Waste Water Treatment has been edited with contributions from well know experts in the field who have been working on different ion exchange materials and technologies for many years

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