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Instrumental Methods of Chemical Analysis-Dr. B. K. Sharma 1981

Buffer Solutions-Professor Rob Beynon 2004-03-01 An indispensable guide to buffers and to understanding the principles behind their use. Helps the user to avoid common errors in preparing buffers and their solutions. A must for researchers in the biological sciences, this valuable book takes the time to explain something often taken for granted - buffers used in experiments. It answers the common questions such as: which buffer should I choose? What about the temperature effects? What about ionic strength? Why is the buffer with the biggest temperature variation used in PCR? It provides even the most experienced researchers with the means to understand the fundamental principles behind their preparation and use - an indispensable guide essential for everyone using buffers.

An Introduction to Aqueous Electrolyte Solutions-Margaret Robson Wright 2007-06-05 An Introduction to Aqueous Electrolyte Solutions is a comprehensive coverage of solution equilibria and properties of aqueous ionic solutions. Acid/base equilibria, ion pairing, complex formation, solubilities, reversible emf's and experimental conductance studies are all illustrated by many worked examples. Theories of non-ideality leading to expressions for activity coefficients, conductance theories and investigations of solvation are described; great care being taken to provide detailed verbal clarification of the key concepts of these theories. The theoretical development focuses on the physical aspects, with the mathematical development being fully explained. An overview of the thermodynamic background is given. Each chapter includes intended learning outcomes and worked problems and examples to encourage student understanding of this multidisciplinary subject. An invaluable text for students taking courses in chemistry and chemical engineering. This book will also be useful for biology, biochemistry and biophysics students who may be required to study electrochemistry as part of their course. A comprehensive introduction to the behaviour and properties of aqueous ionic solutions, including clear explanation and development of key concepts and theories Clear, student friendly style clarifying complex aspects which students find difficult Key developments in concepts and theory explained in a descriptive manner to encourage student understanding Includes worked problems and examples throughout

Polymer Gels-Vijay Kumar Thakur 2018-08-07 This book addresses a range of synthesis and characterization techniques that are critical for tailoring and broadening the various aspects of polymer gels, as well as the numerous advantages that polymer gel-based materials offer. It presents a comprehensive collection of chapters on the recent advances and developments in the science and fundamentals of both synthetic and natural polymer-based gels. Topics covered include: synthesis and structure of physically/chemically cross-linked polymer-gels/polymeric nanogels; gel formation through non-covalent cross-linking; molecular design and characterization; polysaccharide-based polymer gels: synthesis, characterization, and properties; modified polysaccharide gels: silica-based polymeric gels as platforms for the delivery of pharmaceuticals; gel-based approaches in genomic and proteomic sciences; emulgels in drug delivery; and organogels. The book provides a cutting-edge resource for researchers and scientists working in various fields involving polymers, biomaterials, bio-nanotechnology and functional materials.

A Preliminary Investigation of Some Radiocolloidal Properties of Polonium210 Using Molecular Filters-Paul E. Morrow 1954

Smart Membrane Materials and Systems-Liang-Yin Chu 2011-10-13 "Smart Membrane Materials and Systems: From Flat Membranes to Microcapsule Membranes" comprehensively and systematically treats modern understanding of smart or intelligent membranes with environmental stimuli-responsive functions. The contents range from flat membranes to microcapsule membranes with various response properties, such as thermo-response, pH-response, glucose-response, molecular-recognition, and dual-/multi-stimuli-response. While chapters may be read as stand-alone, together they clearly describe cover design concepts, fabrication strategies and methods, microstructures and performances of smart membranes. Vivid schematics and illustrations throughout the book enhance accessibility to the theory and technologies. The book is intended for researchers and postgraduate students in membrane science and technology, separations and controlled-release. Dr. Liang-Yin Chu is a professor at the School of Chemical Engineering, Sichuan University, China. He is a Distinguished Young Scholar of the National Natural Science Foundation of China and a Distinguished Professor of "Chang Jiang Scholars Program" of the Ministry of Education of China.

Fundamentals of Analytical Chemistry-Douglas A. Skoog 1988

Optimization in Drug Discovery-Zhengyin Yan 2004 Recent reports of drug attrition rates have revealed that a significant number of drug candidates fail in the later stage of clinical development due to absorption, distribution, metabolism, elimination and toxicity issues. Lead optimization in drug discovery, a process of attempting to uncover and correct these defects, is highly beneficial in lowering the cost and time to develop therapeutic drugs by reducing drug candidate failures in development. This book provides the assays utilized in drug discovery to rapidly screen for compounds with favorable drug-like properties. A total of 25 chapters, contributed by many experts in the field, cover a wide spectrum of subjects including physicochemical properties, absorption, plasma binding, metabolism, drug interactions, and toxicity, making this an essential book for all pharmacologists and pharmaceutical scientists.

Chemical Principles-Peter William Atkins 2008 Helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications. This work begins with a picture of the atom and then builds towards chemistry's frontier, demonstrating how to solve problems, think about nature and matter, and visualize chemical concepts.

Buffers for pH and Metal Ion Control-D. Perrin 2012-12-06 This book is intended as a practical manual for chemists, biologists and others whose work requires the use of pH or metal-ion buffers. Much information on buffers is scattered throughout the literature and it has been our endeavour to select data and instructions likely to be helpful in the choice of suitable buffer substances and for the preparation of appropriate solutions. For details of pH measurement and the preparation of standard acid and alkali solutions the reader is referred to a companion volume, A. Albert and E. P. Serjeant's The Determination of Ionization Constants (1971). Although the aims of the book are essentially practical, it also deals in some detail with those theoretical aspects considered most helpful to an understanding of buffer applications. We have cast our net widely to include pH buffers for particular purposes and for measurements in non-aqueous and mixed solvent systems. In recent years there has been a significant expansion in the range of available buffers, particularly for biological studies, largely in consequence of the development of many zwitterionic buffers by Good et al. (1966). These are described in Chapter 3.

pH Measurement and Titration-G. Mattock 1961

Dielectric Properties of Aqueous Polyelectrolyte Solutions-Frans van der Touw 1975

Essentials of Organic Chemistry-Paul M. Dewick 2013-03-20 Essentials of Organic Chemistry is an accessible introduction to the subject for students of Pharmacy, Medicinal Chemistry and Biological Chemistry. Designed to provide a thorough grounding in fundamental chemical principles, the book focuses on key elements of organic chemistry and carefully chosen material is illustrated with the extensive use of pharmaceutical and biochemical examples. In order to establish links and similarities the book places prominence on principles and deductive reasoning with cross-referencing. This informal text also places the main emphasis on understanding and predicting reactivity rather than synthetic methodology as well as utilising a mechanism based layout and featuring annotated schemes to reduce the need for textual explanations. * tailored specifically to the needs of students of Pharmacy Medical Chemistry and Biological Chemistry * numerous pharmaceutical and biochemical examples * mechanism based layout * focus on principles and deductive reasoning This will be an invaluable reference for students of Pharmacy Medical and Biological Chemistry.

International Chemical Engineering- 1994

Misconceptions in Chemistry-Hans-Dieter Barke 2008-11-18 Over the last decades several researchers discovered that children, pupils and even young adults develop their own understanding of "how nature really works". These pre-concepts concerning combustion, gases or conservation of mass are brought into lectures and teachers have to diagnose and to reflect on them for better instruction. In addition, there are 'school-made misconceptions' concerning equilibrium, acid-base or redox reactions which originate from inappropriate curriculum and instruction materials. The primary goal of this monograph is to help teachers at universities, colleges and schools to diagnose and 'cure' the pre-concepts. In case of the school-made misconceptions it will help to prevent them from the very beginning through reflective teaching. The volume includes detailed descriptions of class-room experiments and structural models to cure and to prevent these misconceptions.

The Amphoteric Properties of Proteins-Robert Keith Cannan 1941

Biochemical Calculations-Irwin H. Segel 1976-02-04 "Uses mathematics to explore the properties and behavior of biological molecules"--From publisher's description.

CRC Handbook of Materials Science: General properties-Charles T. Lynch 1984 Critically evaluated data on the physical properties of solid state and structural materials is presented in tabular form. Volume one covers general properties and is divided into five sections: Elements, elemental properties, miscellaneous tables of physical properties, conversion tables, and materials standards. A separate chart summarizing binary phase diagrams is in a pocket on the inside back cover. Volume two covers metals, glasses and glass-ceramics, alumina and other refractory materials and composites. Both volumes are indexed.

Official Methods of Analysis of the Association of Official Analytical Chemists-Association of Official Analytical Chemists 1970

Crystallization-related PH Changes During Freezing of Sodium Phosphate Buffer Solutions-Gerardo Gómez 1995

The Photovoltaic Properties of Germanium-Harold Charles Harrison 1938

Mechanical Properties of Concentrated Sodium Desoxyribonucleate Solutions-Frances Helder Webb 1956

Lactic Acid; Properties and Chemistry of Lactic Acid and Derivates-Carl Henrik Holten 1971

Biochemical Microcalorimetry-Harry Darrow Brown 1969

Studies of Fundamental Properties of Rutherfordium (element 104) Using Organic Complexing Agents-Kenneth Ronald Czerwinski 1992

Coordination and Transport Properties of Macrocyclic Compounds in Solution-Brian G. Cox 1992 This book covers the fundamental physical principles of the selective complexation, extraction, and transport of ions and molecules by macrocyclic compounds - both natural and synthetic. It also treats the use of these compounds for the extraction and transport of substrates in chemical and biological systems. Included are solution kinetic and thermodynamic properties of the complexes, along with relevant experimental methods, complemented by solution and solid-state structures. General and specific methods for the synthesis of macro(poly)cyclic specialised ligands are described. The book is useful as additional reading for undergraduate courses in chemistry (e.g. inorganic complexation chemistry, analytical chemistry, solution kinetics, synthesis) and biochemistry (ion transport/membrane phenomena); for graduate students in chemistry and biochemistry; for research workers in macrocyclic chemistry and biophysical chemistry; and for industrial laboratories involved in metal ion extraction and recovery.

CRC Handbook of Chemistry and Physics-William M. Haynes 2016-06-22 Proudly serving the scientific community for over a century, this 97th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference, mirroring the growth and direction of science. This venerable work continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data and current international recommendations on nomenclature, symbols, and units, its usefulness spans not only the physical sciences but also related areas of biology, geology, and environmental science. The 97th edition of the Handbook includes 20 new or updated tables along with other updates and expansions. It is now also available as an eBook. This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach.

Official Methods of Analysis of the Association of Official Agricultural Chemists-Association of Official Analytical Chemists 1965

A Study of Some of the Properties of Sugars and Proteins at the Dropping Mercury Electrode-Amos Clark Griffin 1941

Electrical, Optical, and Magnetic Properties of Organic Solid State Materials- 1997

Electrical, optical, and magnetic properties of organic solid-state materials IV-John R. Reynolds 1998-05-06 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners.

Chemical Properties and Identification of Ions-Omer K. Whipple 1961

Proceedings: Chemical structure, properties and processes-Ludwig Rebenfeld 1971

Viscoelastic Properties of Some Biological Macromolecules in Dilute Solution-John Willard Allis 1965

Polymer-based Smart Materials--processes, Properties and Application- 2009

Experimental Biochemistry-R. L. Dreyer 1989 This biochemistry laboratory book combines the features of a textbook in experimental theory with practical instructions for laboratory procedures. It provides complete details for 25 laboratory techniques, with extensive and detailed descriptions of the theory and basic biochemistry behind each one. The topics covered include chromatography, spectroscopy, electrophoresis, radioimmunoassay, restriction mapping, and in vitro protein biosynthesis. Thorough and very readable, the book can be used as the sole text and laboratory guide in experimental biochemistry courses.

OECD Guidelines for the Testing of Chemicals, Section 1 Test No. 122: Determination of pH, Acidity and Alkalinity-OECD 2013-07-26 This Test Guideline describes the procedure for the electronic determination of pH of an undiluted aqueous solution or dispersion, the pH of a dilution of a solution or dispersion in water, or the pH of a chemical diluted to end-use concentration ...

The Nature and Properties of Cation-exchange Sites in the Soil Organic Fraction-Ted Edwin Lewis 1961

Chemistry for the Biosciences-Jonathan Crowe 2010 Focuses on the key chemical concepts which students of the biosciences need to understand, making the scope of the book directly relevant to the target audience.

Canadian Journal of Physiology and Pharmacology- 1991

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