Determining Ions In A Solution

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New York Review of the Telegraph and Telephone and Electrical Journal OUP USA
An updated guide to the growing field of nanofiltration including fundamental principles, important industrial applications as well as novel materials With contributions from an international panel of experts, the revised second edition of Nanofiltration contains a comprehensive overview of this growing field. The book covers the basic principles of nanofiltration including the design and characterizations of nanofiltration membranes. The expert contributors highlight the broad ranges of industrial applications including water treatment, food, pulp and paper, and textiles. The book explores photocatalytic nanofiltration reactors, organic solvent nanofiltration, as well as nanofiltration in metal and acid recovery. In addition, information on the most recent developments in the field are examined including nanofiltration retentate treatment and renewable energy-powered nanofiltration. The authors also consider the future of nanofiltration materials such as carbon- as well as polymer-based materials. This important book: Explores the fast growing field of the membrane process of nanofiltration Examines the rapidly expanding industrial sector's use of membranes for water purification Covers the most important industrial applications with a strong focus on water treatment Contains a section on new membrane materials, including carbon-based and polymer-based materials, as well as information on artificial ion and water channels as biomimetic membranes Written for scientists and engineers in the fields of chemistry, environment, food and materials, the second edition of Nanofiltration provides a comprehensive overview of the field, outlines the principles of the technology, explores the industrial applications, and discusses new materials.

Factory Elsevier
Various separation membranes have been developed since their discovery over half a century ago, providing numerous benefits and fulfilling many applications in our everyday lives. They lend themselves to techniques ranging from microfiltration and gas separation, to what can be considered as the most advanced technique - ion exchange. This book, aimed at academic researchers, engineers and industrialists, contains a brief history of ion exchange and goes on to explain the preparation, characterization, modification and applications of these important membranes. Discussions include the use of ion exchange in analytical and medical techniques, as well as the development of future applications.

Technical Translations CRC Press
This outline of the principles and chemical interactions in inorganic solution chemistry delivers a course module in an area of considerable complexity.

Principles of Modern Chemistry Royal Society of Chemistry
An examination of the theoretical foundations of the kinetics and thermodynamics of solid-liquid interfaces, as well as state-of-the-art industrial applications, this book presents information on surface and colloidal chemical processes and evaluates vital analytical tools such as atomic force microscopy, surface force apparatus measurements, and p

Ions in Solution CRC Press
It emphasizes that both equilibrium and kinetic processes are important in aquatic systems.

Electrochemical Methods in Soil and Water Research Cengage Learning
Modern Methods for the Separation of Rarer Metal Ions describes several separation methods of more than 50 elements. This book is divided into 19 chapters that include separation methods involving the actinide elements, rare earths, and many rarer elements of the main and transition groups of the periodic table. The introductory chapter discusses the principles of the separation techniques presented in this book. The remaining chapters explore the application of specific separation methods, such as ion exchange, chromatography, liquid-liquid extraction, distillation, and coprecipitation. The approach of each chapter is a presentation of separation principle of an element first followed by numerous examples of applications to the solution of practical problems encountered in separation chemistry. Chapters 2 and 3 examine the separations involving the actinides and rare earth elements using ion exchange and liquid-liquid extraction These are followed by chapters dealing with separations of other rarer elements, which have been arranged according to their position in the periodic table. These elements are: Li, Rb, Cs, Fr, Be, Ra, Ga, In, Tl, Ge, Ag, Au, Ti, Zr, Hf, V, Nb, Ta, Mo, W, Tc, Re and the platinum metals. This book will be of great use to analytical chemists.

Laboratory Instrumentation Ellis Horwood
The book provides a comprehensive guide to the construction, operation, diagnostics, and applications of electron impact ion sources for the production of highly charged ions. Beside the treatment of elementary processes and ion storage in electron impact ion sources, characteristic diagnostic methods for these sources are described which are related to plasma diagnostics. Related to atomic and solid state physics the use of electron impact ion sources is discussed. Diese Monographie behandelt den Aufbau, den Betrieb, die Diagnostik und Anwendungen von Elektronenstoß-Ionenquellen zur Erzeugung hochgeladener Ionen. Neben der Behandlung von Basisprozessen in den Quellen erfolgt eine umfangreiche Beschreibung von Diagnostikmethoden mit Relevanz zur Ionenquellen- und Plasmadiagnostik.

Nuclear Science Abstracts Chemistry 2eThe Determination of Hydrogen IonsIons in Solution
The new edition of this widely-used sourcebook details the startlingly array of diagnostic equipment available in the medical laboratory of the nineties, and also covers maintenance and quality assurance for each type of instrument. This book includes 17 completely rewritten chapters and 7 new ones, on nephelometry and turbidimetry, gas chromatography, mass spectrometry, flow cytometry, automated immunoassay systems, automated blood bank systems, and physician's office laboratory instrumentation.

Ion-exchange Minerals and Disposal of Radioactive Wastes Elsevier
Reagents in Mineral Technology provides comprehensive coverage of both basic as well asapplied aspects of reagents utilized in the minerals industry.This outstanding, single-source reference opens with an explicit account of flotation fundamentals, including coverage of wetting phenomena, mineral/water interfacial phenomena, flo tationchemistry, and flocculation and dispersion of mineral suspensions.It then discusses flotation of sulfide and nonsulfide minerals, with attention to formation ofclithiolates, formation of metal thiol compounds, application of fatty acids, sulfosuccinic acids, amines, and other collectors.Reagents in Mineral Technology also reviews adsorption of surfactants on minerals .. .details adsorption of polymers .. . and considers the chemistry and application of chelation agentsin minerals separations.Additional chapters consider grinding aids, frothers, inorganic and polymeric depressants, dewatering and filtering aids, analytical techniques, and much more.Unique in its depth of coverage, Reagents in Mineral Technology will prove an invaluablereference for mineral engineers and processors; analytical, surface, colloid, and physical chemists;petroleum, petrochemical, metallurgical, and mining engineers; and for use in advancedundergraduate- and graduate-level courses in these and related fiel

Abstracts of Scientific Papers Presented Elsevier
The liquid phase of soil (soil solution) is a very thin, penetrating and all-embracing water layer. It has the most extensive surface among the biosphere components and interacts with all these components. Presented in this work is a new complex approach developed for soil liquid phase investigation that is based on in situ measurements. Investigation of the soil liquid phase can be of great significance in environmental research. This volume sums up the vast experience of the authors' research into soil liquid phase composition in various ecosystems of Central and Eastern Europe. It describes the methodological basics of soil liquid phase research: methods of soil solution extraction, the main problems of application of ion-selective electrodes for immediate in situ assessment of ionic activity in soil liquid phase and redox potential, and ways to overcome those problems. Data are presented on soil liquid phase composition in natural and agricultural ecosystems, their redox, pH, carbonate and other regimes as well as the relations between the composition of the soil liquid phase and different ecological properties. This work is devoted to the pursuit of new approaches to soil liquid phase analysis with a goal of discovering the role of soil liquid phase in the functioning of natural and agricultural ecosystems in recent soil-formation, formation of primary biological production, and in bio-geochemical turnover of elements. It includes new field investigation data as well as all data generalization carried out by means of a special complex database (developed by the authors) on soil liquid phase composition and other soil-ecological properties in various ecosystems in Central and Eastern Europe. This book is the first English edition that integrally considers both methodological aspects and results of investigation of composition, formation, dynamics, spatial heterogeneity, and interrelations of soil liquid phase with other components of ecosystems. Soil scientists, agricultural chemists and ecologists will find this title of great interest.

Water Chemistry ISBS
With its easy-to-read approach and focus on core topics, PHYSICAL CHEMISTRY, 2e provides a concise, yet thorough examination of calculus-based physical chemistry. The Second Edition, designed as a learning tool for students who want to learn physical chemistry in a functional and relevant way, follows a traditional organization and now features an increased focus on thermochemistry, as well as new problems, new two-column examples, and a dynamic new four-color design. Written by a dedicated chemical educator and researcher, the text also includes a review of calculus applications as applied to physical chemistry. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Physical Chemistry Elsevier
This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts.Instead, the topics and descriptions in this book make available specific, detailed step-by-step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step-by-step process for problem solving, whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid/base reactions which often persists through working with acid/base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields

Study Guide CRC Press
Fundamentals of Geoenvironmental Engineering: Understanding Soil, Water, and Pollutant Interaction and Transport examines soil-water-pollutant interaction, including physico-chemical processes that occur when soil is exposed to various contaminants. Soil characteristics relevant to remedial techniques are explored, providing foundations for the correct process selection. Built upon the authors' extensive experience in research and practice, the book updates and expands the content to include current processes and pollutants. The book discusses propagation of soil pollution and soil characteristics relevant to remedial techniques. Practicing geotechnical and environmental engineers can apply the theory and case studies in the

book directly to current projects. The book first discusses the stages of economic development and their connections to the sustainability of the environment. Subsequent chapters cover waste and its management, soil systems, soil-water and soil-pollutant interactions, subsurface transport of pollutants, role of groundwater, nano-, micro- and biologic pollutants, soil characteristics that impact pollution diffusion, and potential remediation processes like mechanical, electric, magnetic, hydraulic and dielectric permittivity of soils. Presents a clear understanding of the propagation of pollutants in soils Identifies the physico-chemical processes in soils Covers emerging pollutants (nano-, micro- and biologic contaminants) Features in-depth coverage of hydraulic, electrical, magnetic and dielectric permittivity characteristics of soils and their impact on remedial technologies

Interfacial Dynamics John Wiley & Sons

1. The book deals with Chemistry subject for MHT CET entrances 2. The guide divided according to XI & XII Syllabus 3. Each chapter is accompanied with 3 level exercises 4. Complete coverage to 21 years' previous years' Solved Papers 5. Selected questions are given from 2021 online exam for quick revision Maharashtra Common Entrance Test or MHT CET is a state-level examination conducted by Maharashtra State Cell to give admission to the eligible candidates in Engineering and Pharmacy courses offered by Government & Private institutions across the state. The revised & updated edition of 'MHT CET Prep Guide 2022' deals with the subject of Chemistry that has been carefully designed to foster the quality of enhancement in the course of preparation for the upcoming paper. This book comprehensively covers all the chapters of Class XI & XII as per the latest reduced syllabus prescribed by the board. Providing a simple but effective approach to the subject matter, each chapter is well explained with detailed theories in a student friendly manner. For the complete practice of the exam, there are three-level exercises in each chapter ensuring step by step enhancement, Coverage to Previous 21 years' MHT CET Questions to get the exact idea of questions asked in exam and lastly, 5 Mock Tests are provided for quick revision of the concepts. With this edition of the book, you can hold the assurance of getting through the upcoming exam of MHT CET 2022. TOC Class XI: Some Basic Concepts of Chemistry, Structure of Atom, Chemical Bonding, Redox Reactions, Elements of Group 1 and 2, States of Matter: Gaseous and Liquid States, Adsorption and Colloids, Basic Principles of Organic Chemistry, Hydro Carbons, Solid States, Solutions, Iconic Equillibria, Chemical Thermodynamics, Electrochemistry, Chemical Kinetics, Elements of Groups 16, 17 and 18, Transition and Inner Transition Elements, Coordination Compounds, Halogen Derivatives, Alcohols, phenols and ethers, Aldehydes, ketones and carboxylic acid, Amines, Biomolecules, Introduction to Polymer Chemistry, Green Chemistry and Nanochemistry, Mock Test (1-5), Selected Questions (Online) MHTCET2021

Determination of the Relative Velocities of the Ions of Sivernitrate in Mixtures of the Alcohols and Water and on the Conductivity of Such Mixtures John Wiley & Sons

Study more effectively and improve your performance at exam time with this comprehensive guide. The study guide includes: chapter summaries that highlight the main themes, study goals with section references, solutions to all textbook Example problems, and over 1,500 practice problems for all sections of the textbook. The Study Guide helps you organize the material and practice applying the concepts of the core text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

New York Review of the Telegraph and Telephone and Electrical Journal Butterworth-Heinemann

In an exhaustive compilation of current knowledge, Wastewater Treatment covers subjects that run the gamut from wastewater sources, characteristics, and monitoring to chemical treatments and nutrient removal. Thoroughly examining basic and advanced topics, this resource has it all. The wealth of easy-to-use tables and illustrations provides quick and clear references, making it indispensable. Schematic drawings of equipment and devices explain the technology and techniques. With the level of detail included, you can count on finding both introductory material and very technical answers to complex questions. It's seamless style clearly delineates what can and must be done to continue to improve the quality of our water. Wastewater Treatment is a valuable resource; appropriate for engineers and students but readable enough for anyone interested in the discipline. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

Methodology for Assessing Soil Series Suitability for Land Treatment of Wastewater Cengage Learning

Chemistry 2eThe Determination of Hydrogen IonsIons in SolutionEllis Horwood

Colloid Chemistry, Theoretical and Applied: Theory and methods, biology and medicine, technological applications Cengage Learning

Inorganic solution chemistry is treated more thoroughly in this text book than many of its contemporaries. Some basic knowledge of inorganic and physical chemistry is assumed. Emphasis is on NMR, UV-VIS, IR Raman spectroscopy, X-ray diffraction, and such topics as acid-base behavior, stability constants and kinetics.

Mineral Scales and Deposits John Wiley & Sons

This book deals with the principles and practices of electrochemical methods as applied to soil and water research, particularly those that can be carried out in the field. Beginning with the basis of potentiometric methods, including electrode potential, principles of potentiometric methods, reference electrodes, liquid-junction potential and characteristics of ion-selective electrodes, the author then proceeds to describe the properties and applications of various types of potentiometric electrodes, including glass, solid-state membrane, liquid-state membrane, oxidation-reduction and gas sensors. A special chapter devoted to commonly encountered problems will aid readers not familiar with potentiometric methods. Voltammetric methods, conductometric methods and electrochemical instruments are also discussed.

Soil Liquid Phase Composition Springer Science & Business Media

Essential reference for researchers and experts in industry highlighting the rapidly growing field of hydroxyapatite-based catalysts and their application in various chemical processes. Hydroxyapatite (Ca10(PO4)6(OH)2) is the main mineral component of human and animal bones. It is largely applied in the field of biomaterials due to its biocompatibility. Recently, hydroxyapatite-based materials have especially gained a lot of attention by researchers in catalysis, as they are versatile and have shown precious properties of a good catalyst and catalyst support such as excellent ion-exchange capacity, high porosity, very low water solubility, controlled basicity/acidity, and good thermal stability at high temperatures. Design and Applications of Hydroxyapatite-Based Catalysts gives a detailed overview of the synthesis, characterization, and use of hydroxyapatite-based materials in catalysis. It covers synthetic hydroxyapatites (from pure chemicals or waste), natural apatites and materials from eggshells and animal bones. The application of hydroxyapatite-based catalysts in selective oxidation, deoxygenation, selective hydrogenation, dehydrogenation reactions, organic synthesis, as well as reforming processes and production of energy carriers is reviewed. Moreover, electrocatalysis and photocatalysis using hydroxyapatite-based materials are discussed. Kinetic and mechanism studies of various chemical pro-cesses over hydroxyapatite-based catalysts are also presented. This is the first book solely dedicated to hydroxyapatite-based materials and their use in catalysis. Covers synthesis and characterization, surface and structure studies, kinetic and mechanism aspects, and various applications in heterogeneous catalysis, electrocatalysis, and photocatalysis. Aimed at further stimulating research in the field Design and Applications of Hydroxyapatite-Based Catalysts is an indispensable source-of-information for researchers in academia and industry working in catalysis.