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Basic concepts of both experimental and theoretical chemical kinetics are concisely explained for those seeking a general knowledge of the subject from this well-known text, now being totally revised and updated. In addition, the book is an invaluable starting point for those embarking on research in kinetics and physical chemistry. Extensive chapter bibliographies point the way toward more detailed accounts or specialized aspects. Historical background included in both chapter introductions and biographical sketches of important researches in chemical kinetics. The range of courses requiring a good basic understanding of chemical kinetics is extensive, ranging from chemical engineers and pharmacists to biochemists and providing the fundamentals in chemistry. Due to the wide reaching nature of the subject readers often struggle to find a book which provides in-depth, comprehensive information without focusing on one specific subject too heavily. Here Dr Margaret Wright provides an essential introduction to the subject guiding the reader through the basics but then going on to provide a reference which professionals will continue to dip in to through their careers. Through extensive worked examples, Dr Wright, presents the theories as to why and how reactions occur, before examining the physical and chemical requirements for a reaction and the factors which can influence these. * Carefully structured, each chapter includes learning objectives, summary sections and problems. * Includes numerous applications to show relevance of kinetics and also provides plenty of worked examples integrated throughout the text. Oxidation of Organic Compounds: Medium Effects in Radical Reactions explores the role of solvents and of the composition of phase states in radical-chain processes involved in the oxidation of organic compounds. Organized into 10 chapters, this book begins with a discussion of the basic concepts relating to the mechanism involved in the oxidation of hydrocarbons and other organic compounds in liquid-phase reactions. Subsequent chapters detail some methods for studying the mechanism of oxidation reactions; role of solvation in chemical reaction kinetics; role of the medium in chain-initiation reactions; role of non-specific and specific solvation in

chain-propagation and chain-termination reactions; and the role of solvation in chain-termination reactions in inhibitors. The influence of the solvent and the phase state of substances undergoing oxidation on the rates and mechanisms of individual elementary processes are also addressed. The last chapter examines the problem of the influence of the solid state of the polymer on the reactivity of radicals. This monograph will be valuable to scientific research workers, engineers, and engineering technologists specializing in the field of radical reactions and in particular in the oxidation of organic compounds. The authoritative introduction to natural water chemistry THIRDEDITION Now in its updated and expanded Third Edition, Aquatic Chemistry remains the classic resource on the essential concepts of natural water chemistry. Designed for both self-study and classroom use, this book builds a solid foundation in the general principles of natural water chemistry and then proceeds to a thorough treatment of more advanced topics. Key principles are illustrated with a wide range of quantitative models, examples, and problem-solving methods. Major subjects covered include: * Chemical Thermodynamics * Solid-Solution Interface and Kinetics * Trace Metals * Acids and Bases * Kinetics of Redox Processes * Dissolved Carbon Dioxide * Photochemical Processes * Atmosphere-Water Interactions * Kinetics at the Solid-Water * Metal Ions in Aqueous Solution Interface * Precipitation and Dissolution * Particle-Particle Interaction * Oxidation and Reduction * Regulation of the Chemical * Equilibria and Microbial Mediation Composition of Natural Waters

The fourth edition of "The Chemistry of the Actinide and Transactinide Elements" comprises all chapters in volumes 1 through 5 of the third edition (published in 2006) plus a new volume 6. To remain consistent with the plan of the first edition, " ... to provide a comprehensive and uniform treatment of the chemistry of the actinide [and transactinide] elements for both the nuclear technologist and the inorganic and physical chemist," and to be consistent with the maturity of the field, the fourth edition is organized in three parts. The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties. A chapter on the chemical properties of the transactinide elements follows. The second group, chapters 15-26, summarizes and correlates physical and chemical properties that are in general unique to the actinide elements, because most of these elements contain partially-filled shells of 5f electrons whether present as isolated atoms or ions, as metals, as compounds, or as ions in solution. The third group, chapters 27-39, focuses on specialized topics that encompass contemporary fields related to actinides in the environment, in the human body, and in storage or wastes. Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes. Volume 6 (Chapters 32 through 39) consists of new chapters that focus on actinide species in the environment, actinide waste forms, nuclear fuels, analytical chemistry of plutonium, actinide chalcogenide and hydrothermal synthesis of actinide compounds. The subject and author indices and list of contributors encompass all six volumes.

The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. In addition to the comprehensive treatment of the chemical properties of each element, ion, and compound from atomic number 89 (actinium) through to 109 (meitnerium), this multi-volume work has specialized and definitive chapters on electronic theory, optical and laser fluorescence spectroscopy, X-ray absorption spectroscopy, organoactinide chemistry, thermodynamics, magnetic properties, the metals, coordination chemistry, separations, and trace analysis. Several chapters deal with environmental science, safe handling, and biological interactions of the actinide elements. The Editors invited teams of authors, who are active practitioners and recognized experts in their specialty, to write each chapter and have endeavoured to provide a balanced

and insightful treatment of these fascinating elements at the frontier of the periodic table. Because the field has expanded with new spectroscopic techniques and environmental focus, the work encompasses five volumes, each of which groups chapters on related topics. All chapters represent the current state of research in the chemistry of these elements and related fields. The solutions manual for problems included in a text on physical chemistry which explains the experimental and theoretical reasoning behind fundamental concepts of physical chemistry, before moving into a discussion of the concept itself. Ancillary package available upon adoption. Solution chemistry deals with liquid solutions in such fields as physical chemistry, chemical physics, molecular biology, statistical mechanics, biochemistry, and biophysics. This book includes experimental investigations of the dielectric, spectroscopic, thermodynamic, transport, or relaxation properties of both electrolytes and non-electrolytes in liquid solutions. The latest research in the world has been selected, gathered and presented here. Fawcett (Chemistry, University of California-Davis) introduces modern topics in solution chemistry to senior undergraduates and graduate students who have completed two semesters or three quarters of chemical thermodynamics and statistical mechanics. Now in its 4th edition, this book remains the ultimate reference for all questions regarding solvents and solvent effects in organic chemistry. Retaining its proven concept, there is no other book which covers the subject in so much depth, the handbook is completely updated and contains 15% more content, including new chapters on "Solvents and Green chemistry", "Classification of Solvents by their Environmental Impact", and "Ionic Liquids". An essential part of every organic chemist's library. Prepared by the authors, this supplement contains solutions to all text problems.

Reaction Kinetics, Volume II: Reactions in Solution deals with the kinetics of reactions in solution and discusses the basic principles and theories of kinetics, including a brief description of homogeneous gas reactions. This book is divided into two chapters. The first chapter focuses on the general principles of reactions in solution that includes reactions between ions and involving dipoles; influence of pressure on rates in solution; substituent effects; and homogeneous catalysis in solution. Chapter 2 primarily deals with general features of reactions in solution, emphasizing the relationship between the results of a kinetic investigation and actual reaction mechanism. This volume is intended for undergraduate students of chemistry who have not previously studied chemical kinetics. This book is also useful to more advanced students in other fields, such as biology and physics, who wish to have a general knowledge of the subject. Contains complete worked-out solutions for all "B" exercises and half of the end-of-chapter problems.

Aquatic and Surface Photochemistry provides a broad overview of current research in the emerging field of environmental aquatic and surface photochemistry. Selected reviews and current research articles are blended to provide an in-depth treatment of various aspects of this research area. The first part of the text deals with photochemistry in the environment, covering recent research on the following topics: aquatic photochemistry of organic pollutants and agrochemicals, photochemical cycling of carbon and transition metals (especially iron), photochemical formation of reactive oxygen species in natural waters, photoreaction in cloud and rain droplets, and photoreactions on environmental surfaces (soil, ash, metal, oxide). The second part provides discussions and data on both heterogeneous photocatalytic and homogeneous processes, with topics ranging from applications to mechanistic studies. These chapters illustrate the wide diversity of pollutant classes that are degradable by photochemical techniques and the effects of various reaction conditions on the rates and efficiency of the techniques. Current kinetic studies are presented, which provide new information about the role of adsorption and the nature of the reactive oxidizing species that mediate these photoremediation processes. This book will interest civil, chemical, and environmental engineers, as well as chemists, soil scientists, geochemists, and atmospheric chemists. Contains complete worked-out

solutions for all "B" exercises and half of the end-of-chapter problems.

Introduction to Chemical Kinetics is a compilation of lecture notes of the author about principles, concepts, and theories in chemical kinetics. The book tackles the nature of chemical kinetics, reaction rates and order, and thermodynamic consistency of rate laws. The effects of temperature on kinetics, prediction of reaction rates, gas-phase reactions, and controlled reactions are also discussed. The text also explains the reactions catalyzed by enzymes; reactions in solids and heterogeneous systems; oxidation of metals; catalysis of reactions by solids; and methods for different reaction rates. The monograph is recommended as a textbook for undergraduate students in chemistry who are currently taking up kinetics, as it is an easily understood and concise book that can also be used as reference.

Progress in Physical Organic Chemistry is dedicated to reviewing the latest investigations into organic chemistry that use quantitative and mathematical methods. These reviews help readers understand the importance of individual discoveries and what they mean to the field as a whole. Moreover, the authors, leading experts in their fields, offer unique and thought-provoking perspectives on the current state of the science and its future directions. With so many new findings published in a broad range of journals, Progress in Physical Organic Chemistry fills the need for a central resource that presents, analyzes, and contextualizes the major advances in the field. The articles published in Progress in Physical Organic Chemistry are not only of interest to scientists working in physical organic chemistry, but also scientists working in the many subdisciplines of chemistry in which physical organic chemistry approaches are now applied, such as biochemistry, pharmaceutical chemistry, and materials and polymer science. Among the topics explored in this series are reaction mechanisms; reactive intermediates; combinatorial strategies; novel structures; spectroscopy; chemistry at interfaces; stereochemistry; conformational analysis; quantum chemical studies; structure-reactivity relationships; solvent, isotope and solid-state effects; long-lived charged, sextet or open-shell species; magnetic, non-linear optical and conducting molecules; and molecular recognition.

J.E. Enderby At the last NATO-ASI on liquids held in Corsica, (August 1977), Professor de Gennes, in his summary of that meeting, suggested that the next ASI should concentrate on some specific aspect of the subject and mentioned explicitly ionic solutions as one possibility. The challenge was taken up by Marie-Claire Bellissent-Funel and George Neilson; I am sure that all the participants would wish to congratulate our two colleagues for putting together an outstanding programme of lectures, round tables and poster session. The theory which underlies the subject was covered by four leading authorities: J.-P. Hansen (Paris) set out the general framework in terms of the statistical mechanics of bulk and surface properties; H.L. Friedman (Stony Brook) focused attention on ionic liquids at equilibrium, and J.B. Hubbard considered non-equilibrium properties such as the electrical conductivity and ionic friction coefficients. Finally, the basic theory of polyelectrolytes treated as charged linear polymers in aqueous solution was presented by J.M. Victor (Paris).

A biography of a 19th-century German scientist renowned for the co-discovery of the second law of thermodynamics and his invention of the ophthalmoscope. The volume relates how von Helmholtz also made contributions to the fields of physiology, philosophy of science and aesthetics. We believe this to be the first monograph devoted to the physicochemical properties of solutions in organic solvent systems. Although there have been a number of books on the subject of non-aqueous solvents - 4, they have been devoted, almost entirely, to inorganic solvents such as liquid ammonia, liquid sulphur dioxide, etc. A variety of new solvents such as dimethylformamide, dimethylsulphoxide and propylene carbonate have become commercially available over the last twenty years. Solutions in these solvents are of technological interest in connection with novel battery systems and chemical synthesis, while studies of ion solvation and transport properties have fostered academic interest. This monograph is primarily concerned with electrolytic solutions

although discussion of non-electrolyte solutions has not been excluded. We have deliberately omitted consideration of the important area of solvent extraction, since this has been adequately covered elsewhere. Our contributors were asked to review and discuss their respective areas with particular reference to differences in technique necessitated by use of non-aqueous solvents while not reiterating facts well-known from experience with aqueous solutions. We have striven to build their contributions into a coherent and consistent whole. We thank our contributors for following our suggestions so ably and for their forbearance in the face of our editorial impositions. The Radiation Chemistry of Water tackles radiation-induced changes in water and explains the behavior of irradiated water, with some changes in aqueous solutions. This book deals primarily with short-lived species like the hydroxyl radical, hydrated electron, and hydrogen atom, which cause the chemical changes in irradiated water and aqueous solutions. These species and their origin, properties, and dependence of their yields on various factors are discussed in several chapters. Other topics also covered are the diffusion-kinetic model of water radiolysis and some general cases, radiation sources, and dosimetry. This book is most useful to students in the fields of radiation chemistry, physical chemistry, radiobiology, and nuclear technology. It is sometimes said that the year of birth of physical chemistry was 1887. In that year the journal *Zeitschrift für physikalische Chemie* - the first journal devoted exclusively to physical chemistry - was launched and in its first year published important papers by Arrhenius and van't Hoff. However, a good deal of physical chemistry had been done previously. Two centuries earlier Robert Boyle had been carrying out physico-chemical investigations, and a good case can be made for regarding him as the first physical chemist. His approach to chemistry had a great influence on others, including Isaac Newton. In the eighteenth century Joseph Black and Antoine Lavoisier also did much that can be classed as physical chemistry. In the nineteenth century Robert Bunsen, Michael Faraday, and many others were also contributing to the development of the subject. In this book Professor Laidler gives an account of the scientific development of physical chemistry over the years. He begins by discussing just what physical chemistry is, and how it relates to other sciences. He considers some of the difficulties faced by early investigators, as a result of attitudes of the Churches, governments, and even the universities which at first were mainly interested in classical studies. Some account is also given of the way in which physical scientists have communicated with each other. Classical mechanics, and the modifications that had to be made to it, are briefly considered. The bulk of the book is concerned with the main branches of physical chemistry - thermodynamics, kinetic theory, statistical mechanics, spectroscopy, electrochemistry, kinetics, colloid and surface chemistry, and quantum chemistry - and how these subjects have developed up to the present time. Common apparatus and operations; The balance; Volumetric apparatus; Fundamentals of volumetric analysis; Volumetric determination of chloride ion by Mohr's method; Potentiometric measurements; Ionization of salts, acids, and bases; Acidimetry and alkalimetry. The solutions manual for problems included in a text on physical chemistry which explains the experimental and theoretical reasoning behind fundamental concepts of physical chemistry, before moving into a discussion of the concept itself. Ancillary package available upon adoption.

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