

Diffusion in and Through Polymers: Principles and Applications

Vieth, Wolf R.

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Diffusion In And Through Polymers Principles And Applications

Helmut Mehrer



Diffusion In And Through Polymers Principles And Applications:

Diffusion in and Through Polymers Wolf R. Vieth, 1991 This work examines the subject of diffusion in polymers from a unified hands on point of view The author describes important recent discoveries in membrane separation processes and details related research on polymer sorption and diffusion structure property relationships for penetrant transport and case studies with poly ethylene terephthalate This work yields a new understanding of small molecule transport processes non equilibrium molecular characterization of glassy polymers carrier supported enzymes and whole cells biosensors and bioreactor analysis and design The first eight chapters address the core principles of diffusion in polymers and their application to membrane separations The last three chapters extend these principles to practical applications in the field of bioprocesses An internationally recognized expert the author has won a DuPont Invention Award and the Visiting Scientists Award of Japan He is currently Distinguished Professor of Chemical and Biochemical Engineering at Rutgers University

Applied Chemistry: A Textbook for Engineers and Technologists H.D. Gesser, 2013-11-27 This book is the result of teaching a one semester course in Applied Chemistry Chemistry 224 to second year engineering students for over 15 years The contents of the course evolved as the interests and needs of both the students and Engineering Faculty changed All the students had at least one semester of Introductory Chemistry and it has been assumed in this text that the students have been exposed to Thermodynamics Chemical Kinetics Solution Equilibrium and Organic Chemistry These topics must be discussed either before starting the Applied subjects or developed as required if the students are not familiar with these prerequisites Engineering students often ask Why is another Chemistry course required for Non Chemical Engineers There are many answers to this question but foremost is that the Professional Engineer must know when to consult a Chemist and be able to communicate with him When this is not done the consequences can be a disaster due to faulty design poor choice of materials or inadequate safety factors Examples of blunders abound and only a few will be described in an attempt to convince the student to take the subject matter seriously

Polymer Devolatilization Ramon Albalak, 2017-09-29 This work introduces the fundamental background necessary to understand polymer devolatilization It elucidates the actual mechanisms by which the devolatilization of polymer melts progresses and discusses virtually every type of devolatilization equipment available The work also addresses devolatilization in various geometries and types of equipment describing the use of falling strand slit single screw co rotating and counter rotating twin screw devolatilization

Performance and Application of Novel Biocomposites Oisik Das, 2021-03-12 Amidst impending climate change and enhanced pollution levels around the globe the need of the hour is to develop bio based materials that are sustainable and possess comparable performance properties to their synthetic counterparts In light of the aforementioned numerous investigations are being conducted to identify process and create materials that are concurrently innocuous towards the environment and have superior properties This book is a collection of such scientific articles that propagate novel ideas for the development of

polymeric composite materials which have application potential in numerous fields such as medicine automobile aviation construction etc It also contains a pedagogical article that proposes some strategies to continue experimental research during pandemics This book will provide readers a quick glance into recent developments regarding polymeric materials and will encourage them to propagate these research ideas further **SPE/ANTEC 1997 Proceedings** Spe,1997-04-22 First published in 1997 Routledge is an imprint of Taylor Francis an informa company Novel Approaches to the Structure and Dynamics of Liquids: Experiments, Theories and Simulations Jannis Samios,Vladimir A. Durov,2013-11-11 The unique behavior of the liquid state together with the richness of phenomena that are observed render liquids particularly interesting for the scientific community Note that the most important reactions in chemical and biological systems take place in solutions and liquid like environments Additionally liquids are utilized for numerous industrial applications It is for these reasons that the understanding of their properties at the molecular level is of foremost interest in many fields of science and engineering What can be said with certainty is that both the experimental and theoretical studies of the liquid state have a long and rich history so that one might suppose this to be essentially a solved problem It should be emphasized however that although for more than a century the overall scientific effort has led to a considerable progress our understanding of the properties of the liquid systems is still incomplete and there is still more to be explored Basic reason for this is the many body character of the particle interactions in liquids and the lack of long range order which introduce in liquid state theory and existing simulation techniques a number of conceptual and technical problems that require specific approaches Also many of the elementary processes that take place in liquids including molecular translational rotational and vibrational motions Trans Rot Vib coupling structural relaxation energy dissipation and especially chemical changes in reactive systems occur at different and or extremely short timescales **Simulation Methods for Polymers** Michael Kotelyanskii,Doros N. Theodorou,2004-03-01 Polyphenylene Oxide and Modified Polyphenylene Oxide Membranes Geeta Chowdhury,Boguslaw Kruczek,Takeshi Matsuura,2013-11-27 Fluid membrane material interfaces morphologies of membrane surface and the sub layer underneath the membrane surface and fluid transport through the membrane governed by the above interface and morphology parameters and driving forces involved in process operatio all these three aspects together constitute the fundamental physico chemical and engineering basis for the practical success of Membrane Separation Technology MST in all its applications Quantitative data on the above interface and morphology parameters and applicable transport equations involving the above parameters are needed for membrane design specification of membranes modules and systems and prediction of their performance for any given separation application Even though more than 40 years have elapsed since the emergence of the field of MST there are very few books which deal with all the above three aspects of the subject in an integrated manner This simply shows that the field of MST is still in its early stages of development and only a small fraction of its vast potential has been practically realized to date Still what has already accomplished is extraordinary both in its

scope and in its impact on scientific research and service to society at large

Environmental Silicate Nano-Biocomposites Luc Avérous, Eric Pollet, 2012-05-24 Environmental Silicate Nano Biocomposites focuses on nano biocomposites which are obtained by the association of silicates such as bioclays with biopolymers. By highlighting recent developments and findings, green and biodegradable nano composites from both renewable and biodegradable polymers are explored. This includes coverage of potential markets such as packaging, agriculture, leisure and the fast food industry. The knowledge and experience of more than twenty international experts in diverse fields from chemical and biochemical engineering to applications is brought together in four different sections covering Biodegradable polymers and Silicates, Clay Polyesters, Nano biocomposites, Clay Agropolymers, Nano biocomposites and Applications, and biodegradation of Nano biocomposites. By exploring the relationships between the biopolymer structures, the processes and the final properties, Environmental Silicate Nano Biocomposites explains how to design nano materials to develop new valuable environmentally friendly properties and uses. The combination of fundamental and applied science makes this an ideal reference for a range of readers from students and lecturers to material and polymer scientists and even industrial engineers who are interested in bringing new environmental nano materials to the current market. Journal American Chemical Society, 2004

Comprehensive Membrane Science and Engineering Enrico Drioli, Lidietta Giorno, Enrica Fontananova, 2017-07-20 Comprehensive Membrane Science and Engineering Second Edition Four Volume Set is an interdisciplinary and innovative reference work on membrane science and technology. Written by leading researchers and industry professionals from a range of backgrounds, chapters elaborate on recent and future developments in the field of membrane science and explore how the field has advanced since the previous edition published in 2010. Chapters are written by academics and practitioners across a variety of fields including chemistry, chemical engineering, material science, physics, biology and food science. Each volume covers a wide spectrum of applications and advanced technologies such as new membrane materials e.g. thermally rearranged polymers, polymers of intrinsic microporosity and new hydrophobic fluoropolymer and processes e.g. reverse electrodialysis, membrane contractors, membrane crystallization, membrane condenser, membrane dryers and membrane emulsifiers that have only recently proved their full potential for industrial application. This work covers the latest advances in membrane science, linking fundamental research with real life practical applications using specially selected case studies of medium and large scale membrane operations to demonstrate successes and failures with a look to future developments in the field. Contains comprehensive cutting edge coverage helping readers understand the latest theory. Offers readers a variety of perspectives on how membrane science and engineering research can be best applied in practice across a range of industries. Provides the theory behind the limits, advantages, future developments and failure expectations of local membrane operations in emerging countries.

PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES BINAY K. DUTTA, 2007-01-21 This textbook is targetted to undergraduate students in chemical engineering, chemical technology and

biochemical engineering for courses in mass transfer separation processes transport processes and unit operations The principles of mass transfer both diffusional and convective have been comprehensively discussed The application of these principles to separation processes is explained The more common separation processes used in the chemical industries are individually described in separate chapters The book also provides a good understanding of the construction the operating principles and the selection criteria of separation equipment Recent developments in equipment have been included as far as possible The procedure of equipment design and sizing has been illustrated by simple examples An overview of different applications and aspects of membrane separation has also been provided Humidification and water cooling necessary in every process industry is also described Finally elementary principles of unsteady state diffusion and mass transfer accompanied by a chemical reaction are covered

SALIENT FEATURES A balanced coverage of theoretical principles and applications Important recent developments in mass transfer equipment and practice are included A large number of solved problems of varying levels of complexities showing the applications of the theory are included Many end chapter exercises Chapter wise multiple choice questions An Instructors manual for the teachers

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 Spe,1999-04-29 Volume 2 of the conference proceedings of the SPE Antac on Plastics Bridging the Millennia subtopic of Materials held on the 26 May 1999 in New York City USA

Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania, 1992

[SPE/ANTEC 1996 Proceedings \(Print version/ 3 volumes\)](#) Spe,1996-05-02

Diffusion in Solids Helmut Mehrer,2007-07-24 Diffusion is a vital topic in solid state physics and chemistry physical metallurgy and materials science Diffusion processes are ubiquitous in solids at elevated temperatures A thorough understanding of diffusion in materials is crucial for materials development and engineering This book first gives an account of the central aspects of diffusion in solids for which the necessary background is a course in solid state physics It then provides easy access to important information about diffusion in metals alloys semiconductors ion conducting materials glasses and nanomaterials Several diffusion controlled phenomena including ionic conduction grain boundary and dislocation pipe diffusion are considered as well Graduate students in solid state physics physical metallurgy materials science physical and inorganic chemistry or geophysics will benefit from this book as will physicists chemists metallurgists materials engineers in academic and industrial research laboratories

Osmosis Engineering Nidal Hilal,Ahmad Fauzi Ismail,Mohamed Khayet Souhaimi,Daniel Johnson,2021-04-23 Osmosis Engineering provides a comprehensive overview of the state of the art surrounding osmosis based research and industrial applications The book covers the underpinning theories technology developments and commercial applications Sections discuss innovative and advanced membranes and modules for osmosis separation processes e g reverse osmosis forward osmosis pressure retarded osmosis osmotic membrane distillation different application of these osmosis separation processes for energy and water separation such as the treatment of radioactive waste oily wastewater and heavy metal removal draw solutions pretreatment technologies

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