

Recent Developments in Separation Science

Volume II

Edited by
Mingming He, Li



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Recent Developments In Separation Science Vol 2

**Jared Anderson,Alain
Berthod,Veronica Pino,Aprryll M.
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Recent Developments In Separation Science Vol 2:

Recent Developments in Separation Science Po Li. N N, 2018-05-04 Volume two of the series focuses on the topics of extraction filtration heatless adsorption hydrometallurgical extraction interfacial phenomena separation of gases by regenerative sorption various polymeric membrane systems such as electrodialysis ultrafiltration reverse osmosis Gas and liquid separations by selective permeation through polymeric membrane and the origin of separate system The last topic as a special feature of interest provides an analysis of the genesis and development of new separation techniques Recent Developments in Separation Science Norman N. Li, 1972 At head of title on cover CRC Adsorption: Science and Technology A.E. Rodrigues, M. Douglas LeVan, Daniel Tondeur, 2012-12-06 Proceedings of the NATO Advanced Study Institute Vimeiro Portugal July 17 29 1988 Interfacial Phenomena in Apolar Media Eicke, 1986-11-10 This book gives practical on the job guidance as well as detailed theoretical background on a wide range of occurrences including hydrophobic foams adsorption of surfactants polymers on solids from nonpolar media and lubrication Extensive end of chapter references enumerate the most relevant and current publications on the topics discussed Providing over 130 instructive figures more than 100 equations and useful graphs and diagrams **Advances in Applied Microbiology**, 1989-08-23 Advances in Applied Microbiology **Surfactants in Chemical/Process Engineering** Wasan, 2017-10-19 The first reference to link chemical engineering technologies and surfactant science in such breadth of focus Surfactants in Chemical Process Engineering features contributions by major authorities in chemical engineering whose applications have opened important new fields for surfactant use These applications include dispersion science separation processes oil recovery microemulsions and environmental control This volume discusses ultrafiltration processes flotation metal extractions and more examines surfactants in process streams for such industrial separations as micellar enhanced ultrafiltration adsorbent regeneration micellar extractions and oil/water demulsification describes methodologies for separations of fatty acids metals minerals and impurities solvents and hydrocarbons for cost saving industrial and consumer product manufacture details techniques for developing and optimizing formulations for superior agricultural plant control or enhancement systems micro and macroemulsions and liquid surfactant membranes and looks closely at emulsion polymers in soil stabilizations protective coatings sealants adhesives textile processing paper finishing specialty concretes and tire manufacture **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

Analytical Separation Science, 5 Volume Set Jared Anderson, Alain Berthod, Veronica Pino, Apryll M. Stalcup, 2016-02-29 Endlich ein Forschungsleitfaden f r Wissenschaftler des Fachgebiets die neue Methoden entwickeln oder einsetzen Dieses Handbuch umfasst f nf thematische B nde und bietet damit einen umfassenden berblick ber das Fachgebiet Erl utert werden Grundlagen die Methodenentwicklung und hochkar tige Anwendungen f r alle wichtigen Analyseverfahren darunter chromatische Verfahren Techniken in den Bereichen Elektromigration und Membranen Dieses Referenzwerk umfasst ein breites Spektrum und legt den Schwerpunkt auf Entwicklungen f r die Zukunft Damit ist es ein Muss f r Forscher und eine wertvolle Wissensquelle f r Studenten im Hauptstudium und Studienabsolventen

Solvent Extraction Vladimir S Kislik, 2011-08-31 The main challenge in modern solvent extraction separation is that most techniques are mainly empirical specific and particular for narrow fields of practice and require a large degree of experimentation This concise and modern book provides a complete overview of both solvent extraction separation techniques and the novel and unified competitive complexation solvation theory This novel and unified technique presented in the book provides a key for a preliminary quantitative prediction of suitable extraction systems without experimentation thus saving researchers time and resources Analyzes and compares both classical and new competitive models and techniques Offers a novel and unified competitive complexation solvation theory that permits researchers to standardize some parameters which decreases the need for experimentation at R D Presents examples of applications in multiple disciplines such as chemical biochemical radiochemical pharmaceutical and analytical separation Written by an outstanding scientist who is prolific in the field of separation science

Unit Operations Handbook John J. McKetta Jr, 2018-12-12 Emphasizes the design control and functioning of various unit operations offering shortcut methods of calculation along with computer and nomographic solution techniques Provides practical sections on conversion to and from SI units and cost indexes for quick updating of all cost information This book is designed for mechanical chemical process design project and materials engineers and continuing education courses in these disciplines

Science and Technology of Separation Membranes Tadashi Uragami, 2017-02-10 Offers a comprehensive

overview of membrane science and technology from a single source Written by a renowned author with more than 40 years experience in membrane science and technology and polymer science Covers all major current applications of membrane technology in two definitive volumes Includes academic analyses applications and practical problems for each existing membrane technology Includes novel applications such as membrane reactors hybrid systems and optical resolution as well as membrane fuel cells

The Experimental Determination of Solubilities G. T. Hefter, R. P. T. Tomkins, 2003-08-01 In diesem Band werden vielfältige experimentelle Verfahren zur Bestimmung von Löslichkeiten beschrieben Commission on Solubility Data der IUPAC beschloß die Qualität der Löslichkeitsdaten international anzugleichen und zu verbessern indem verschiedene Verfahren zur Ermittlung dieser Daten zusammengefaßt veröffentlicht werden alle Datentypen wurden hier berücksichtigt ausführliche Angaben zur Zuverlässigkeit der einzelnen Verfahren und zur Auswahl der jeweils geeigneten Methode

Handbook of Separation Process Technology Ronald W. Rousseau, 1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them

Reagents in Mineral Technology P. Somasundaran, 2018-04-27 Reagents in Mineral Technology provides comprehensive coverage of both basic as well as applied 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 flotation chemistry and flocculation and dispersion of mineral suspensions It then discusses flotation of sulfide and nonsulfide minerals with attention to formation of lithiolates 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 agents in 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 invaluable reference for mineral engineers and processors analytical surface colloid and physical chemists petroleum petrochemical metallurgical and mining engineers and for use in advanced undergraduate and graduate level courses in these and related fields

A Century of Separation Science Haleem J. Issaq, 2001-12-19 A Century of Separation Science presents an extensive overview of the critical developments in separation science since 1900 covering recent advances in chromatography electrophoresis field flow fractionation countercurrent chromatography and supercritical fluid chromatography for high speed and high throughput analysis

Hydrometallurgy in Extraction Processes C. K. Gupta, T.

K. Mukherjee, 1990-08-15 This two volume set provides a full account of hydrometallurgy Filled with illustrations and tables this work covers the flow of source material from the mined or concentrate state to the finished product It also highlights ion exchange carbon adsorption and solvent extraction processes for solution purification and concentration The extensive reference list over 850 makes this set a valuable resource for extraction and process metallurgists researchers and practitioners

Membrane Handbook Winston Ho, Kamallesh Sirkar, 2012-12-06 Membrane processes have wide industrial ap This handbook reviews the published litera plications covering many existing and emerging ture presents an in depth description of com uses in the chemical petrochemical petroleum mercialized membrane processes and gives a state of the art review of new membrane pro environmental water treatment pharmaceutic al medical food dairy beverage paper tex cess concepts under development It is intended tile and electronic industries The existing ap to be a single source of underlying principles membranes membrane modules process de plications include 1 dialysis for the purifica tion of human blood the artificial kidney 2 sign applications and cost estimates It is also electrodialysis for the desalination of brackish a first attempt to bridge the gap between the water to produce potable water 3 reverse theory and practice osmosis for the desalination of seawater 4 There are several groups which may benefit ultrafiltration for the concentration of large pro from this handbook It can be used as educa tein molecules from cheese casein whey and tional material for industrial personnel engaged milk and 5 microfiltration for the sterilization in membrane separations For scientists and of pharmaceutical and medical products beer engineers active in research and development in wine and soft drinks Since membrane pro synthetic membranes it will serve as a single cesses generally have low capital investment as source of reference for the entire field

Biomedical Applications of Immobilized Enzymes and Proteins Thomas Ming Swi Chang, 2013-11-21 I ADSORPTION EEEEEEEE E E carrier 2 COVALENT LINKAGE a Insoluble support b Intermolecular linkage N E c Soluble support 0 m 3 tM TRIX MOLECULAR ENTRAPMENT J polymer matrix 4 ENCAPSULATION membrane FIGURE I Classification of immobilized enzymes Covalently linked adsorbed and matrix entrapped enzymes represent stage II research on the microenvironment Microencapsulation represents stage III research on the intracellular environment Further subdivision of microencapsulated enzymes will be found in Chapter 12 4 T M S CHANG matrix entrapment In this section detailed discussions will center on clinical analysis urine analysis monitoring of environmental pollution radioimmune assay enzyme linked immunosorbent assay enzyme electrodes and other approaches involving immobilized enzymes antibodies and antigens In the final section research workers describe and discuss the perspectives of immobilized enzymes and proteins Here they speculate on the future potential of possible approaches even though these may not have been extensively studied or tested at the laboratory stage The biomedical applications of enzymes and proteins especially in the thera peutic area is in a very early stage of development Much remains to be explored and studied and the area is wide open for investigators interested in original research in a new interdisciplinary area References Chang T M S 1972 Artificial Cells Charles C Thomas Publisher

Springfield Ill Dunlop R B ed 1974 Immobilized Biochemicals and Affinity Chromatography Plenum Press New York

Adsorption Technology and Design W John Thomas, FEng, Barry Crittenden, 1998-04-27 The aim of this book is to provide all those involved in designing and running adsorption processes with a guide to adsorption technology and design

Handbook of Food Process Design, 2 Volume Set Jasim Ahmed, Mohammad Shafiur Rahman, 2012-05-21 In the 21st Century processing food is no longer a simple or straightforward matter Ongoing advances in manufacturing have placed new demands on the design and methodology of food processes A highly interdisciplinary science food process design draws upon the principles of chemical and mechanical engineering microbiology chemistry nutrition and economics and is of central importance to the food industry Process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption Handbook of Food Process Design is a major new 2 volume work aimed at food engineers and the wider food industry Comprising 46 original chapters written by a host of leading international food scientists engineers academics and systems specialists the book has been developed to be the most comprehensive guide to food process design ever published Starting from first principles the book provides a complete account of food process designs including heating and cooling pasteurization sterilization refrigeration drying crystallization extrusion and separation Mechanical operations including mixing agitation size reduction extraction and leaching processes are fully documented Novel process designs such as irradiation high pressure processing ultrasound ohmic heating and pulsed UV light are also presented Food packaging processes are considered and chapters on food quality safety and commercial imperatives portray the role process design in the broader context of food production and consumption

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