

Solvent Extraction Principles and Practice

Second Edition, Revised and Expanded

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Solvent Extraction Principles And Practice Second Edition

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Solvent Extraction and Liquid Membranes Manuel Aguilar, Jose Luis Cortina, 2008-04-07 The applications of solvent extraction SX and liquid membranes LM span chemistry metallurgy hydrometallurgy chemical mineral processing and waste treatment making it difficult to find a single resource that encompasses fundamentals as well as advanced applications Solvent Extraction and Liquid Membranes Fundamentals and Applicat

Strategies and Tactics in Organic Synthesis Michael J. Hudson, Frank W. Lewis, Laurence M. Harwood, 2013-07-29 This account describes the scientific events that have led from malonamides which coextract minor actinide and lanthanide fission products to the 1,2,4-triazines such as BTBP and BTPhen reagents that are capable of separating Am III from Eu III The journey started with Mike Hudson having a walk in hot and dusty Rome with Claude Musikas of the CEA in 1980 and continues to Mike enjoying a celebratory beer or two in Reading 2012 with Laurence

Harwood and Frank Lewis Throughout the journey organic synthesis coupled with coordination chemistry has been the engine by which successful science has developed **Rare Earths** Jacques Lucas, Pierre Lucas, Thierry Le Mercier, Alain Rollat, William G. Davenport, 2014-09-09 High technology and environmental applications of the rare earth elements REE have grown dramatically in diversity and importance over the past four decades This book provides a scientific understanding of rare earth properties and uses present and future It also points the way to efficient recycle of the rare earths in end of use products and efficient use of rare earths in new products Scientists and students will appreciate the book's approach to the availability structure and properties of rare earths and how they have led to myriad critical uses present and future Experts should buy this book to get an integrated picture of production and use present and future of rare earths and the science behind this picture This book will prove valuable to non scientists as well in order to get an integrated picture of production and use of rare earths in the 21st Century and the science behind this picture Defines the chemical physical and structural properties of rare earths Gives the reader a basic understanding of what rare earths can do for us Describes uses of each rare earth with chemical physics and structural explanations for the properties that underlie those uses Allows the reader to understand how rare earths behave and why they are used in present applications and will be used in future applications Explains to the reader where and how rare earths are found and produced and how they are best recycled to minimize environmental impact and energy and water consumption **Enhancing Extraction Processes in the Food Industry** Nikolai Lebovka, Eugene Vorobiev, Farid Chemat, 2016-04-19 Extraction is an important operation in food engineering enabling the recovery of valuable soluble components from raw materials With increasing energy costs and environmental concerns industry specialists are looking for improved techniques requiring less solvents and energy consumption Enhancing Extraction Processes in the Food Industry is a **Essential Oils** Rajendra Chandra Padalia, Dakeshwar Kumar Verma, Charu Arora, Pramod Kumar Mahish, 2023-02-20 Essential oils are simply the volatile oils of plants These are concentrated liquids contain many terpenes alkaloids and alcohols etc Various compounds of essential oils have bioactive properties such as antimicrobial anti cancer anti diabetic anti viral and anti fungal etc This book describes the sources of essential oils extraction and production method characterizing tools bioactivity and various applications in the field of industries daily usage agriculture health and food **Role of Materials Science in Food Bioengineering** Alexandru Mihai Grumezescu, Alina Maria Holban, 2018-03-29 The Role of Materials Science in Food Bioengineering Volume 19 in the Handbook of Food Bioengineering presents an up to date review of the most recent advances in materials science further demonstrating its broad applications in the food industry and bioengineering Many types of materials are described with their impact in food design discussed The book provides insights into a range of new possibilities for the use of materials and new technologies in the field of food bioengineering This is an essential reference on bioengineering that is not only ideal for researchers scientists and food manufacturers but also for students and educators Discusses the role of material science

in the discovery and design of new food materials Reviews the medical and socioeconomic impact of recently developed materials in food bioengineering Includes encapsulation coacervation techniques emulsion techniques and more Identifies applications of new materials for food safety food packaging and consumption Explores bioactive compounds polyphenols food hydrocolloids nanostructures and other materials in food bioengineering

Process Technology André B. de Haan, 2015-04-24 Process Technology provides a general overview about chemical and biochemical process technology It focuses on the structure and development of production processes main technological operations and the important aspects of process economics The theoretical foundations in each chapter are supplemented by case studies and examples in a clear and instructive manner to illustrate the practical aspects The author highlights operating principles reasons for application and available industrial equipment of technological operations Aim is to facilitate those without a process technology background in multi disciplinary cooperation with bio chemical engineers by providing an overview of this exciting field The textbook is organized into seven distinct parts Structure of the chemical industry and bio chemical processes Bio Chemical reaction engineering Molecular separations distillation extraction absorption adsorption Mechanical separations filtration sedimentation membranes Particle and final product manufacturing Development scale up design and safety of processes Major industrial process descriptions

Advanced Separation Techniques for Nuclear Fuel Reprocessing and Radioactive Waste Treatment Kenneth L Nash, Gregg J Lumetta, 2011-03-15 Advanced separations technology is key to closing the nuclear fuel cycle and relieving future generations from the burden of radioactive waste produced by the nuclear power industry Nuclear fuel reprocessing techniques not only allow for recycling of useful fuel components for further power generation but by also separating out the actinides lanthanides and other fission products produced by the nuclear reaction the residual radioactive waste can be minimised Indeed the future of the industry relies on the advancement of separation and transmutation technology to ensure environmental protection criticality safety and non proliferation i e security of radioactive materials by reducing their long term radiological hazard Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment provides a comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment Part one covers the fundamental chemistry engineering and safety of radioactive materials separations processes in the nuclear fuel cycle including coverage of advanced aqueous separations engineering as well as on line monitoring for process control and safeguards technology Part two critically reviews the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment The section includes discussions of advanced PUREX processes the UREX concept fission product separations and combined systems for simultaneous radionuclide extraction Part three details emerging and innovative treatment techniques initially reviewing pyrochemical processes and engineering highly selective compounds for solvent extraction and developments in partitioning and transmutation processes that aim to close the nuclear fuel cycle The book concludes with other advanced techniques

such as solid phase extraction supercritical fluid and ionic liquid extraction and biological treatment processes With its distinguished international team of contributors Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment is a standard reference for all nuclear waste management and nuclear safety professionals radiochemists academics and researchers in this field A comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment Details emerging and innovative treatment techniques reviewing pyrochemical processes and engineering as well as highly selective compounds for solvent extraction Discusses the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment Advances in Inorganic Chemistry Rudi van Eldik,Kristin Bowman-James,2006-12-01 This thematic issue devoted to Template Effects and Molecular Organization is based on a special symposium recently organized by the American Chemical Society in Philadelphia The authors contributed oral presentations and are experts in their fields Each chapter is fully referenced Contains comprehensive reviews written by leading experts in the field Includes new information on the important advances in inorganic and bioinorganic chemistry **Multisensor Systems for Chemical Analysis** Larisa Lvova,Dmitry Kirsanov,Corrado Di Natale,Audrey Legin,2014-02-21 This book is devoted to the recent advances in the development of artificial sensory systems widely known as electronic tongues ET It contains contributions by prominent authors from all over the world Each chapter focuses on a particular research direction in modern ET It introduces and discusses in detail various designs sensor materials transduction principles and applications The book shows a screenshot of diverse research efforts in the field of ET and will hopefully inspire new fruitful ideas and significant practical advances **Membrane Technologies for Water Treatment** Alberto Figoli,Jan Hoinkis,Jochen Bundschuh,2016-02-18 Focuses on the application of membrane technologies in removing toxic metals metalloids from water Particular attention is devoted to the removal of arsenic uranium and fluoride These compounds are all existing in the earth s crust at levels between two and five thousands micrograms per kg parts per million on average and these compounds can be considered highly toxic to humans who are exposed to them primarily from air food and water In order to comply with the new maximum contaminant level numerous studies have been undertaken to improve established treatments or to develop novel treatment technologies for removing toxic metals from contaminated surface and groundwater Among the technologies available applicable for water treatment membrane technology has been identified as a promising technology to remove such toxic metals from water The book describes both pressure driven traditional processes such as Nanofiltration Reverse Osmosis Ultrafiltration etc and more advanced membrane processes such as forward osmosis membrane distillation and membrane bio reactors employed in the application of interest Key aspect of this book is to provide information on both the basics of membrane technologies and on the results depending on the type of technology employed **Diffusion** E. L. Cussler,2009-01-15 The clearest coverage available of diffusion and mass transfer which is a key part of the chemical engineering curriculum Ionic-Liquid-Based

Aqueous Biphasic Systems Mara G. Freire, 2016-10-05 This book offers comprehensive information on the fundamentals and applications of ionic liquid based aqueous biphasic systems which have predominantly and successfully been employed as alternative platforms for the extraction separation and purification of diverse high value products The book consists of an initial introduction providing a brief overview from fundamentals to applications followed by nine chapters addressing the respective phase diagrams interpretation and characterization and remarkable examples of their applications It also includes two final chapters focusing on recent developments in the search for more environmentally benign and biocompatible ionic liquid based aqueous biphasic systems and on the progress made to date concerning the recovery recycling and reuse of the phase forming components the goal being the development of cost effective and sustainable processes The book offers an interesting and useful guide for a broad readership in the fields of green chemistry biotechnology chemical engineering and biochemistry among others Mara G Freire is a Coordinator Researcher at CICECO Aveiro Institute of Materials Chemistry Department University of Aveiro Portugal

Rare Earth Metals and Minerals Industries Yellapu V Murty, Mary Anne Alvin, Jack P Lifton, 2023-12-28 This book presents the current status and future prospects of rare earth elements with respect to a multitude of factors including resource availability production and applications Among the topics covered are the extraction of raw materials alloying and compound production applications resource conservation through recycling regulatory issues and potential new resource streams The chapters are authored by well known technical experts in their fields with decades of research industrial and governmental policy experience The book is expected to serve as the first single source reference on rare earth minerals and metals aimed at students scientists technologists government legislators regulatory agencies investors and business leaders It provides in depth examination of the importance of rare earth elements to the global economy and their use in technological innovation including energy power transportation medicine electronics and chemical petroleum industries

Process Intensification Mirko Skiborowski, Andrzej Górak, 2022-06-06 Process intensification aims for increasing efficiency and sustainability of biochemical production processes This book presents strategies for the intensification of fluid separation processes such as reactive distillation reactive absorption and membrane assisted separations The authors discuss theoretical fundamentals model development methods for synthesis and the design as well as scale up and industrial process applications

Chemical Engineering Miguel A. Galan, Eva Martin del Valle, 2005-10-31 Unlike extensive major reference works or handbooks Chemical Engineering Trends and Developments provides readers with a ready reference to latest techniques in selected areas of chemical engineering where research is and will be focused in the future These areas are bioseparations particle science and design nanotechnology and reaction engineering The aim of the book is to provide academic and R D researchers with an overview of the main areas of technical development and how these techniques can be applied Each chapter focuses on a technique plus a selection of applications or examples of where the technique could be applied

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