

# Separation and Purification Technology



# Separation Technology

**Rachel Sandford**



## **Separation Technology:**

**Separation Technology** John Garside, Institution of Chemical Engineers (Great Britain), 1994 Separation technology is at the heart of engineering in the chemical and process industries This book takes the pulse of the technology and assesses its health for future use Recently separation technology has been under pressure to improve both the quality and diversity of products In response the condition of older technologies drying crystallization and distillation has been improved while newer ideas like adsorption and bioseparations have been brought rapidly into training Understanding of the underlying phenomena of separations argue the authors leads to better equipment design and more applications Newer processes depend on subtle differences in the molecular architecture of the components to be separated chiral molecules for example The way in which this is reflected at a larger scale is one of the themes of the book *Separation Technologies for the Industries of the Future* Panel on Separation Technology for Industrial Reuse and Recycling, Committee on Industrial Technology Assessments, Commission on Engineering and Technical Systems, National Materials Advisory Board, Division on Engineering and Physical Sciences, National Research Council, 1999-01-22 Separation processes or processes that use physical chemical or electrical forces to isolate or concentrate selected constituents of a mixture are essential to the chemical petroleum refining and materials processing industries In this volume an expert panel reviews the separation process needs of seven industries and identifies technologies that hold promise for meeting these needs as well as key technologies that could enable separations In addition the book recommends criteria for the selection of separations research projects for the Department of Energy's Office of Industrial Technology *Gas Separation Technology* E. F. Vansant, R. Dewolfs, 1990 The important role of separation in various branches of science and technology demands a comprehensive and integrated treatment of the subject Hence a science of separation is now emerging that deals with the fundamental physical and chemical phenomena involved in the attainment of separations as well as with the development and application of various processes This book aims to present a comprehensive treatment of both fundamental aspects and practical applications of gas separations purification and related techniques Gas separations are usually achieved by physical or physicochemical phenomena divided into equilibrium and rate processes although chemical reactions may also be involved in this process The fundamentals of thermodynamics and modelling both important for better design and process operations are therefore discussed in this book Latest developments in gas separations using sorbents such as zeolites activated carbon impregnated materials etc are also handled as are gas separations using membranes cryogenic techniques and chemical processes including catalytic purification Various gas separation methods are evaluated and compared together with mixed technologies in terms of practical objectives such as performance limitations and cost A special section is devoted to the promising new developments in accurate gas measurements **Separation Technologies for Minerals, Coal, and Earth Resources** Courtney Young, Gerald H. Luttrell, 2012 This book is an authoritative digest of the latest developments in the

mineral processing industry Dozens of authors share their insights on how practitioners can develop earth resources more economically while simultaneously addressing vital factors ranging from sustainability to environmental stewardship The book examines coal processing surface forces and hydrophobicity process improvements and environmental controls dewatering and drying gravity separations industrial minerals flotation base metal flotation flotation equipment and practice process reagents magnetic and electrostatic separations modeling and process control and resource engineering Important current issues such as gas hydrates oil sands secondary materials metals and waste and process waters are also discussed

**Membrane Separations Technology** E.J. Hoffman, 2003-05-12 The petroleum natural gas and the chemical petrochemical process industries variously require the separation of mixtures whether of raw feedstream materials reactants intermediates or products as comprising gases liquids or solutions Membrane separations add another weapon to the arsenal of separation methods including the upgrading of subquality natural gas reserves This book furnishes the necessary derivations and calculations for numerically predicting the separations that can be obtained based on the known respective membrane permeabilities of the pure components A verstile text Membrane Separations Technology is suitable both as a reference and a textbook for the practicing process engineer the researcher and chemical petrochemical engineering faculty and students Has cutting edge scientific methods for liquifying and transporting natural gas Written for the engineer in the field for easy access to important information Also contains problems and solutions for the student and professor in chemical engineering departments

*Membrane Separations Technology* R.D. Noble, S.A. Stern, 1995-01-17 The field of membrane separation technology is presently in a state of rapid growth and innovation Many different membrane separation processes have been developed during the past half century and new processes are constantly emerging from academic industrial and governmental laboratories While new membrane separation processes are being conceived with remarkable frequency existing processes are also being constantly improved in order to enhance their economic competitiveness Significant improvements are currently being made in many aspects of membrane separation technology in the development of new membrane materials with higher selectivity and or permeability in the fabrication methods for high flux asymmetric or composite membranes in membrane module construction and in process design Membrane separation technology is presently being used in an impressive variety of applications and has generated businesses totalling over one billion U S dollars annually The main objective of this book is to present the principles and applications of a variety of membrane separation processes from the unique perspectives of investigators who have made important contributions to their fields Another objective is to provide the reader with an authoritative resource on various aspects of this rapidly growing technology The text can be used by someone who wishes to learn about a general area of application as well as by the knowledgeable person seeking more detailed information

Particle Separation Techniques, 2022-07-22 Particle Separation Techniques Fundamentals Instrumentation and Selected Applications presents the latest research in the field of particle

separation methods This edited book authored by subject specialists is logically organized in sections grouping the separation techniques according to their preparative or analytical purposes and the particle type Along with the traditional and classical separation methods suitable for micronic particles an update survey of techniques appropriate for nanoparticle characterization is presented This book fills the gap in the literature of particle suspension analysis of a synthetic but comprehensive manual helping the reader to identify and apply selected techniques It provides an overview of the techniques available to a reader who is not an expert on particle separation yet about to enter the field design an experiment or buy an instrument for his her new lab Presents a resource that is ideal for anyone preparing samples across a variety of fields including pharmaceuticals food science pollution analysis and control agricultural products and more Includes real case examples discussed by leading experts in the field Provides chapters that contain a unique common table that summarizes points of strength and the weaknesses of each technique

**Solid-Liquid Filtration and Separation Technology** Albert Rushton, Anthony S. Ward, Richard G. Holdich, 2008-07-11 A valuable presentation of theoretical and practical information in the area of liquid solid filtration The development of theoretical models is highlighted with practical design data and problem related examples Modern trends e g membrane systems are reported together with the fundamental aspects of particulate technology The increasing interest in pollution control and environmental protection provides an expansive market for this book Chemical engineers chemists physicists water treatment sewage engineers civil engineers and all those concerned with filtration and pollution will find this book of tremendous value and practical use

**Future Opportunities in Catalytic and Separation Technology** M. Misono, Y. Moro-oka, S. Kimura, 1990-01-22 The production of useful materials and the removal of polluting substances are fundamental to chemical technology and in this respect catalytic and separation processes play essential roles In order to cope with increasing demands to find solutions for the shortage of natural resources and global environmental pollution rapid and significant progress in the technology is required This book results from the successful seminar on Selective Reactions and Separation held at Oiso Japan in February 1988 The seminar was organised by ASPRONC the Association for the Progress of New Chemistry as the fourth in a series of seminars on Frontier Technology ASPRONC was inaugurated in 1986 and its membership comprises major companies in the chemical industry and various other sectors interested in chemistry The aim of this seminar was to explore the frontiers of catalytic and separation technology and to discuss the requirements for its future development The many interesting lectures and active discussions which resulted stimulated the editors to prepare this book Each lecturer has written a chapter which represents a significantly revised and extended version of his original lecture The book will appeal to many readers and will undoubtedly help to make a positive contribution to the future development of chemical technology

**Assessment of Potential Energy Savings in Fluid Separation Technologies**, 1984 *Chemical Separation Technologies and Related Methods of Nuclear Waste Management* Gregory R. Choppin, Mikhail Kh. Khankhasayev, 1999-02-28 Separation technologies are of crucial importance to

the goal of significantly reducing the volume of high level nuclear waste thereby reducing the long term health risks to mankind International co operation including the sharing of concepts and methods as well as technology transfer is essential in accelerating research and development in the field The writers of this book are all internationally recognised experts in the field of separation technology well qualified to assess and criticize the current state of separation research as well as to identify future opportunities for the application of separation technologies to the solution of nuclear waste management problems The major emphases in the book are research opportunities in the utilization of innovative and potentially more efficient and cost effective processes for waste processing treatment actinide speciation separation methods technological processing and environmental restoration

**Ionic Liquids in Separation Technology** Antonia Perez De Los Rios, Francisco Jose Hernandez Fernandez, 2014-08-08 Ionic Liquids in Separation Technology reports on the most important fundamental and technological advances in separation processes using ionic liquids It brings together the latest developments in this fascinating field supplements them with numerous practical tips and thus provides those working in both research and industry with an indispensable source of information The book covers fundamental topics of physical thermal and optical properties of ionic liquids including green aspects It then moves on to contexts and applications including separation of proteins reduction of environmental pollutants separation of metal ions and organic compounds use in electrochromic devices and much more For the specialist audience the book serves as a recompilation of the most important knowledge in this field whereas for starting researchers in ionic liquid separation technology the book is a great introduction to the field First book in the marketplace dedicated to ionic liquids in separation technology Contributions from scientists in academia and researchers in industry ensure the coverage of both scientific fundamentals and industrial applications Covers a broad collection of applications in separation technology which makes the book a single source of information Includes many practical tips for researchers in industry and scientists who apply ionic liquids in their work

**Industrial Membrane Separation Technology** K. Scott, R. Hughes, 2012-12-06 Membrane science and technology is an expanding field and has become a prominent part of many activities within the process industries It is relatively easy to identify the success stories of membranes such as desalination and microfiltration and to refer to others as developing areas This however does not do justice to the wide field of separations in which membranes are used No other single process offers the same potential and versatility as that of membranes The word separation classically conjures up a model of removing one component or species from a second component for example a mass transfer process such as distillation In the field of synthetic membranes the terminology separation is used in a wider context A range of separations of the chemical mass transfer type have developed around the use of membranes including distillation extraction absorption adsorption and stripping as well as separations of the physical type such as filtration Synthetic membranes are an integral part of devices for analysis energy generation and reactors cells in the electrochemical industry

**Separation Techniques in Analytical**

**Chemistry** Rudolf Bock, Reinhard Nießner, 2023-07-24 The separation of a mixture into its individual components is one of the most fundamental procedures in analytical and industrial chemistry This classic book in analytical chemistry provides a comprehensive yet systematic outline of all known separation methods Through its detailed treatment of the basic principles of separation possibilities it not only covers what is currently known but also represents a treasure trove of methods that are still awaiting further development It is clearly structured and contains interesting examples further reading and a detailed index An indispensable book for advanced students of natural sciences chemistry biochemistry food chemistry pharmacy clinical chemistry environmental sciences and technology chemical engineering chemical physical measurement biotechnology as well as teachers of these disciplines Advanced Computer and Communication Engineering Technology Hamzah Asyrani Sulaiman, Mohd Azlishah Othman, Mohd Fairuz Iskandar Othman, Yahaya Abd Rahim, Naim Che Pee, 2015-12-28 This book covers diverse aspects of advanced computer and communication engineering focusing specifically on industrial and manufacturing theory and applications of electronics communications computing and information technology Experts in research industry and academia present the latest developments in technology describe applications involving cutting edge communication and computer systems and explore likely future trends In addition a wealth of new algorithms that assist in solving computer and communication engineering problems are presented The book is based on presentations given at ICOCOE 2015 the 2nd International Conference on Communication and Computer Engineering It will appeal to a wide range of professionals in the field including telecommunication engineers computer engineers and scientists researchers academics and students 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

**Fundamentals of Membrane Separation Technology** Zhan Wang, 2024-01-23 Fundamentals of Membrane Separation Technology provides a comprehensive and systematic introduction to this environmentally friendly separation process Using a structured format that promotes comprehension and implementation each chapter provides overviews principles materials and preparation and industrial applications Each chapter then concludes with future prospects references and end of chapter exercises Written for students and professionals this book is an ideal reference for those who wish to better understand the fundamentals and applications of membrane technology Evaluates present and future applications of more recently developed membranes in energy conversion biomedical components controlled release devices and environmental engineering Provides a comprehensive overview of all aspects of membranes and their applications Includes numerous industrial case studies practical examples and questions

**Separation Technologies for the Industries of the Future** National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Commission on Engineering and Technical Systems, Committee on Industrial Technology Assessments, Panel on Separation Technology for Industrial Reuse and Recycling, 1999-01-08 Separation processes or processes that use physical chemical or electrical forces to isolate or concentrate selected constituents of a mixture are essential to the chemical petroleum refining and materials processing industries In this volume an expert panel reviews the separation process needs of seven industries and identifies technologies that hold promise for meeting these needs as well as key technologies that could enable separations In addition the book recommends criteria for the selection of separations research projects for the Department of Energy's Office of Industrial Technology

**Chemical Alchemy: Unveiling the Secrets of Separation Techniques** Pasquale De Marco, Chemical Alchemy Unveiling the Secrets of Separation Techniques is the ultimate guide for anyone interested in the fascinating world of chemical engineering In this comprehensive book you will explore the crucial role of separation techniques and gain a deep understanding of their applications in various industries With 10 chapters covering a wide range of topics this book



takes you on a journey through the principles methods and innovations of separation techniques From liquid liquid and liquid solid separation to gas liquid and gas solid separation you will discover the secrets behind each method and its practical applications Each chapter is carefully crafted to provide you with in depth knowledge and insights You will learn about the historical evolution of separation techniques the key principles and concepts and the emerging trends and innovations in the field Real world case studies and practical applications will showcase the effectiveness and versatility of these techniques Chemical Alchemy goes beyond traditional separation methods and explores novel techniques that are shaping the future of the industry From supercritical fluid extraction to membrane distillation chromatographic separation to nanofiltration you will discover cutting edge methods that offer exciting possibilities for the future Sustainability is a key focus in this book as we explore green separation methods waste minimization strategies and the recycling and reuse of resources You will gain insights into the economic and environmental considerations of separation technology and explore future directions for sustainable practices Whether you are a student a professional or simply curious about the science behind chemical separations Chemical Alchemy is your comprehensive guide Join us on this exciting journey as we unravel the mysteries of separation techniques and unlock the secrets to efficient and cost effective chemical processes

**Separation Techniques in Nuclear Waste Management (1995)** Thomas E Carleson, Chien M. Wai, Nathan A. Chipman, 2017-11-22 Separation Techniques in Nuclear Waste Management is an up to date comprehensive survey of processes for separation of nuclear wastes Comprised of articles by scientists and engineers at universities and national laboratories in the U S and overseas the book provides excellent reference information for individuals working in nuclear waste management Specifically the book covers current separation technologies and techniques for waste liquid solid and gas streams that contain radionuclides Such wastes are typical of those produced as a result of nuclear materials processing and spent fuel reprocessing Chapters on promising new technologies and state of the art processes currently in use provide valuable information for design engineers as well as for research scientists The articles in Separation Techniques in Nuclear Waste Management are brief and concise designed for quick access to pertinent information Many of the contributors are leaders in their fields It is the most current survey available of the latest nuclear waste management techniques

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