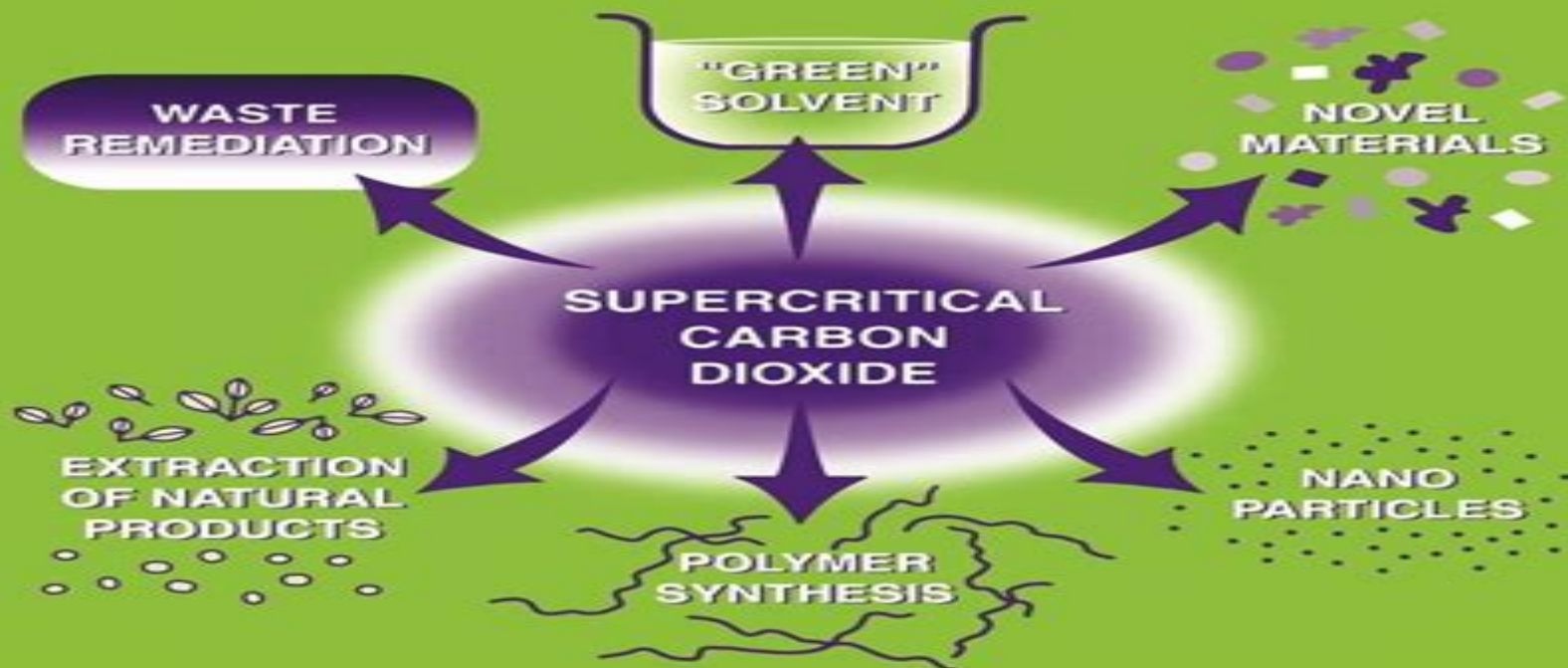


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Supercritical Carbon Dioxide

Separations and Processes



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Supercritical Carbon Dioxide Separations And Processes

Syed S. H. Rizvi



Supercritical Carbon Dioxide Separations And Processes:

Supercritical Carbon Dioxide Aravamudan S. Gopalan, Chien M. Wai, Hollie K. Jacobs, 2003-10-09 This book covers a broad range of topics involving supercritical carbon dioxide from theoretical studies to applications in separations materials science and reactivity and catalysis Engineering Processes for Bioseparations LAURENCE R. WEATHERLEY, 2013-10-22 The use of biotechnology in chemical synthesis offers up numerous advantages to the engineer in the process industries but it also presents a number of fundamental challenges and difficulties which impinge directly on separation process requirements The use of biochemical separations has grown significantly during the past decade and is especially used in process industries such as healthcare and food processing However it is becoming increasingly more important in areas such as recycling and waste water treatment and as industry shifts towards cleaner processes biochemical separations will continue to grow The two main objectives of this book are to focus on the application of existing separation process techniques to the recovery and purification of biologically derived products and to examine the state of knowledge of new techniques which have future potential Within these objectives the complexities and breadth of problems associated with biological separations are discussed specific engineering techniques are featured and their adaptation to biochemical separations are highlighted

Separation, Extraction and Concentration Processes in the Food, Beverage and Nutraceutical Industries Syed S. H. Rizvi, 2010-10-28 Separation extraction and concentration are essential processes in the preparation of key food ingredients They play a vital role in the quality optimization of common foods and beverages and there is also increasing interest in their use for the production of high value compounds such as bioactive peptides from milk and whey and the recovery of co products from food processing wastes Part one describes the latest advances in separation extraction and concentration techniques including supercritical fluid extraction process chromatography and membrane technologies It also reviews emerging techniques of particular interest such as pervaporation and pressurised liquid extraction Part two then focuses on advances in separation technologies and their applications in various sectors of the food beverage and nutraceutical industries Areas covered include dairy and egg processing oilseed extraction and brewing This section discusses the characteristics of different foods and fluids how food constituents are affected by separation processes and how separation processes can be designed and operated to optimize end product quality With its team of experienced international contributors Separation extraction and concentration processes in the food beverage and nutraceutical industries is an important reference source for professionals concerned with the development and optimisation of these processes Describes the latest advances in separation extraction and concentration techniques and their applications in various sectors of the food beverage and nutraceutical industries Reviews emerging techniques of particular interest such as pervaporation and pressurised liquid extraction Explores the characteristics of different foods and fluids and how food constituents are affected by separation processes **Separation Processes in the Food and Biotechnology Industries**

A S Grandison, M J Lewis, 1996-01-01 This book reviews methods and techniques for separating food components and products of the biotechnology industry The introduction focuses on food composition and some of the conventional separation techniques Subsequent chapters deal with each specific type or area of application individually and include information on the basic principles industrial equipment available commercial applications and an overview of research and development

Green Separation Processes Carlos A. M. Afonso, João Pedro G. Crespo, 2006-05-12 This timely book is the first to provide a comprehensive overview of all important aspects of this modern technology with the focus on the green aspect The expert authors present everything from reactions without solvents to nanostructures for separation methods from combinatorial chemistry on solid phase to dendrimers The result is a ready reference packed full of valuable facts on the latest developments in the field high quality information otherwise widely spread throughout articles and reviews From the contents Green chemistry for sustainable development New synthetic methodologies and the demand for adequate separation processes New developments in separation processes Future trends and needs It is a must have for every researcher in the field

Reactive Separation for Process Intensification and Sustainability Carlos Ariel Cardona Alzate, Mariana Ortiz Sanchez, Pisarenko Yury Andrianovich, 2019-12-23 This book describes analyses and discusses the main principles phenomena and design strategies of reactive separation processes with an emphasis on the intensification as a basis of the sustainability Different reactive separation processes are explained in detail to show the phenomena and with the purpose of understanding when their use allows advantages based on the output results Case examples are analysed and the perspective of these processes in the future is discussed The overall sustainability of reactive separation processes in the industry is also explained separately

Separations Technology Wayne P. Olson, 2020-02-03 Authored by a team of respected scientists and technologists this book covers many pharmaceutical and biotechnology separations methods currently in use Practical applications and descriptions are offered for air elutriation microporous filtration ultrafiltration phase partitioning crystallization and chromatographic technologies such as adsorption affinity chelate ion exchange size exclusion template hydrophobic interaction biotransformations and chiral separations Containing hundreds of references and a complete index this book is designed for research and development scientists process optimization engineers and quality control laboratory scientists as well as quality assurance professionals and others needing to understand current separation techniques

Mass Transfer and Separation Processes Diran Basmadjian, 2007-04-25 Mass transfer along with separation processes is an area that is often quite challenging to master as most volumes currently available complicate the learning by teaching mass transfer linked with heat transfer rather than focusing on more relevant techniques With this thoroughly updated second edition Mass Transfer and Separation Processes Pr

Advances in Separation Sciences Pravin G Ingole, Chaudhery Mustansar Hussain, 2024-11-30 *Advances in Separation Sciences Sustainable Processes and Technologies* discusses the different separation technologies and their applications in a variety of industrial processes The book lists the

pros and cons of the various processes for specialized application and outlines selection criteria to provide readers with the knowledge they need to develop processes and technologies themselves Divided into eight parts chapters cover sustainable perspectives and developments theory and mechanisms of various separation processes advances in sample preparation techniques advances in chromatography advances in membrane technology advances in microfluidics green and sustainable separation sciences and challenges and commercialization In depth and step by step descriptions of the various processes and technologies explanations of their inclusion in modern industry and scales for both experimental and theoretical models are also included Includes new research findings and relates them to industrial applications Identifies new research needs and opportunities Includes both mechanisms and applications Provides fundamental knowledge of separation processes through theories and problems Includes challenges and solutions for the commercialization of separation processes Food Biochemistry and Food Processing Leo M. L. Nollet,Fidel Toldrà,Sootawat Benjakul,Gopinadhan Paliyath,Y. H. Hui,2012-07-10 Simpson food science and agricultural chemistry McGill U Canada brings together academics and industry professionals working in food biochemistry processing and safety around the world for this 45 chapter textbook aimed at food scientists researchers and technologists in the food industry and faculty and students in food science technology and engineering It combines the areas of food biochemistry and food processing to help them rationalize and develop more effective strategies to produce and preserve food It covers the essential principles of food biochemistry enzymology and food processing then the biochemistry of meat poultry seafoods milk fruits vegetables cereals and fermented foods and food microbiology and safety Along with updates to several chapters this edition has been revised to incorporate safety considerations and the chemical changes induced by processing in the biomolecules of food in each chapter It includes a new section on health and functional foods and 10 new chapters on topics like thermally and minimally processed foods separation technology and allergens

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