

E. Stahl · K.-W. Quirin · D. Gerard

# **Dense Gases for Extraction and Refining**



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# Dense Gases For Extraction And Refining

**Yitzhak Marcus, Arup K. SenGupta**



## **Dense Gases For Extraction And Refining:**

*Dense Gases for Extraction and Refining* Egon Stahl, Karl-Werner Quirin, Dieter Gerard, 2012-12-06 Procedures for extracting or refining sensitive substances using dense gases have been developed for numerous purposes Dense carbon dioxide is already being used industrially for decaffeination of coffee and extraction of hops Further possible applications have been tested on the laboratory or pilot plant scales and shown to be mostly economical Uses as varied as the non aggressive extraction of spice extraction of polymers refining of spent oil pyrolysis extraction of wood and liquefaction of coal show the extremely wide range of application The book comprehensively reviews the present state of development and features examples of application of this new technique

**Dense Gases for Extraction and Refining** E. Stahl, K. W. Quirin, D. Gerard, 1986 *Dense Gases for Extraction and Refining (translated from German)*, 1988

**Extraction Optimization in Food Engineering** Constantina Tzia, George Liadakis, 2003-07-21 The only comprehensive source on extraction process optimization this book details the installation construction development modeling control and economics of conventional and specialized extraction systems in the food processing industry It supplies case studies for illustration of specific extraction systems in commercial food production

**Extraction of Natural Products Using Near-Critical Solvents** M.B. King, T.R. Bott, 2012-12-06 The aim of this book is to present the current state of the art of extracting natural products with near critical solvents and to view the possibilities of further extensions of the technique Relevant background theory is given but does not dominate the book Carbon dioxide is the near critical solvent used in most recent applications and inevitably receives prominence In addition to general descriptions and reviews the book contains three chapters by industrial practitioners who describe in detail the operation of their processes and discuss the market for their products Sections on the design of the pressure vessels and pumps required in these processes and on the acquisition of the data required for design are included The costing of the processes is also discussed There is good scope for combining a near critical extraction step with other process steps in which the properties of near critical solvents are utilised for example as a reaction or crystallisation medium and a chapter is devoted to these important aspects It is hoped that the work will be found to contain a great deal of specific information of use to those already familiar with this field However the style of presentation and content is such that it will also be useful as an introduction In particular it will be helpful to those wondering if this form of separation method has anything to offer for them whether they are engineers chemists or managers in industry or in academic or research institutions

**Technology and Solvents for Extracting Oilseeds and Nonpetroleum Oils** Peter J. Wan, Phillip J. Wakelyn, 1997 This book brings together current information on technology and solvents for extracting oilseeds The editors hope that this monograph will serve as a useful reference for the managers and engineers in oil extraction and its allied industries and a starting point for researchers in searching for the optimum solvent for extraction of any given oil bearing materials

**Gradient HPLC of Copolymers and Chromatographic Cross-Fractionation** Gottfried

Glöckner,2012-12-06 The problems involved in separating complex macromolecules require understanding not only the chromatographic process but also the physicochemical behavior of the solutes This sentence from the pen of Phyllis R Brown 1 University of Rhode Island can certainly be applied to synthetic copolymers whose structure is very complex indeed Thus it may be forgiven that a book on copolymer HPLC has been written not by a trained chromatographer but by someone from the polymer side The HPLC of synthetic polymers is often understood to mean only a synonym for size exclusion chromatography The latter method separates polymers according to the size of the macromolecules and enables the molecular weight distribution of a sample to be evaluated But as early as 1936 Mark and Saito attempted chromatographic fractionation of cellulose acetate on a charcoal like adsorbent made from blood HPLC adsorption chromatography was first applied to copolymer analysis by Teramachi et al in 1979 Since then another branch of polymer HPLC has arisen which has the capacity of separating copolymers by composition and enables the chemical composition distribution to be evaluated The technique requires a suitable elution program and is mainly carried out as gradient elution **Applications of**

**Supercritical Fluid Extraction in Food Processing** Preeti Birwal,Megh R. Goyal,C. K. Sunil,2025-09-17 Preservation of food is a top priority in today's food processing industry which focuses on nutrients texture and sensorial characteristics of food products Supercritical fluid extraction is a process that is a green method that allows rapid extraction of bioactive compounds at reduced cost This new volume investigates technologies within this extraction process starting with an introduction and proceeding on to the design applications for quality and regulatory aspects A wide range of research demonstrating the successful application of this method in different food products ranging from milk meat fish grains fruits and vegetables and other foods is discussed The book explores the opportunities and challenges properties chemistry fluids operating conditions and yield modeling of supercritical fluid extraction analytical applications chromatography micro and nano scale materials extraction of phytochemicals from plants application in fruits vegetables spices herbs oilseeds food byproducts and more **Ion Exchange and Solvent Extraction** Yitzhak Marcus,Arup K. SenGupta,2004-07-23 Volume 17

in the Ion Exchange and Solvent Extraction series represents the vanguard of research on solvent extraction It covers the principles of electrolyte extraction and other subjects of increasing interest to the field This volume begins with pharmaceutical applications of supercritical fluid solvents particularly supercritical carbon dioxide It also contains chapters on liquid ion exchangers and relevant experiment protocols SCF applications in drug formulation and pollution reduction exploiting SCF as reaction media applications of metal bis dicarbollide in analytical chemistry and radioactive waste treatment and synergistic extraction of metal ions Volume 17 discusses the ion exchange isothermal supersaturation technique metal separation via pH induced parametric pumping modeling of ion exchange kinetics for ultrapure water and the engineering of activated carbons and carbonaceous materials for removal of metal ions and organic micropollutants in water Volume 17 cover topics that include supercritical fluid applications applications of metal bis dicarbollide and

synergistic extraction of metal ions      Supercritical Fluids E. Kiran, Pablo G. Debenedetti, Cor J. Peters, 2012-12-06

Supercritical fluids are neither gas nor liquid but can be compressed gradually from low to high density and they are therefore interesting and important as tunable solvents and reaction media in the chemical process industry. By adjusting the density the properties of these fluids can be customised and manipulated for a given process, physical or chemical transformation. Separation and processing using supercritical solvents such as CO<sub>2</sub> are currently on line commercially in the food, essential oils and polymer industries. Many agencies and industries are considering the use of supercritical water for waste remediation. Supercritical fluid chromatography represents another major analytical application. Significant advances have recently been made in materials processing ranging from particle formation to the creation of porous materials. The chapters in this book provide tutorial accounts of topical areas centred around 1 phase equilibria, thermodynamics and equations of state; 2 critical behaviour, crossover effects; 3 transport and interfacial properties; 4 molecular modelling, computer simulation; 5 reactions, spectroscopy; 6 phase separation, kinetics; 7 extractions; 8 applications to polymers, pharmaceuticals, natural materials and chromatography; 9 process scale up.

**High Pressure Process Technology: Fundamentals and Applications** A. Bertucco, G. Vetter, 2001-10-15

Clear evidence of increasing demands in the processing industry prompted the editors and authors to publish a new book about High Pressure Process Technology: Fundamentals and Applications. This book presents the latest knowledge regarding the high pressure processing aspects combined with that about the modeling, the design and the operation of safe and reliable high pressure plants and equipment. This treatment and selection of the subjects is stimulating and unique. Consisting of nine chapters, each subdivided into several sections, the book addresses the high pressure aspects providing well selected correlated information connected with a comprehensive overview together with a large number of references. The main body of the first eight chapters refers to subjects like high pressure in general, the thermodynamics and kinetics of the fluids involved, the design of high pressure equipment, the modeling and design of reactors, separation and fractionation units, the safety aspects, the control and economics. In the extended last chapter, examples of promising high pressure applications are explained, such as chemical and enzymatic reactions in supercritical solvents, hydrogenation under supercritical conditions, supercritical water oxidation, polymerization with metallocene catalysts, supercritical extraction, fractionation and precipitation, supercritical pharma processing, ultra high pressure sterilization and supercritical dry cleaning.

**Handbook of Food Engineering** Dennis R. Heldman, Daryl B. Lund, Cristina Sabliov, 2018-12-19

As the complexity of the food supply system increases, the focus on processes used to convert raw food materials and ingredients into consumer food products becomes more important. The Handbook of Food Engineering, Third Edition, continues to provide students and food engineering professionals with the latest information needed to improve the efficiency of the food supply system. As with the previous editions, this book contains the latest information on the thermophysical properties of foods and kinetic constants needed to estimate changes in key components.

of foods during manufacturing and distribution Illustrations are used to demonstrate the applications of the information to process design Researchers should be able to use the information to pursue new directions in process development and design and to identify future directions for research on the physical properties of foods and kinetics of changes in the food throughout the supply system Features Covers basic concepts of transport and storage of liquids and solids heating and cooling of foods and food ingredients New chapter covers nanoscale science in food systems Includes chapters on mass transfer in foods and membrane processes for liquid concentration and other applications Discusses specific unit operations on freezing concentration dehydration thermal processing and extrusion The first four chapters of the Third Edition focus primarily on the properties of foods and food ingredients with a new chapter on nanoscale applications in foods Each of the eleven chapters that follow has a focus on one of the more traditional unit operations used throughout the food supply system Major revisions and or updates have been incorporated into chapters on heating and cooling processes membrane processes extrusion processes and cleaning operations

*Introduction to Supercritical Fluids* Richard Smith, Hiroshi Inomata, Cor Peters, 2013-12-08 This text provides an introduction to supercritical fluids with easy to use Excel spreadsheets suitable for both specialized discipline chemistry or chemical engineering student and mixed discipline engineering economic student classes Each chapter contains worked examples tip boxes and end of the chapter problems and projects Part I covers web based chemical information resources applications and simplified theory presented in a way that allows students of all disciplines to delve into the properties of supercritical fluids and to design energy extraction and materials formation systems for real world processes that use supercritical water or supercritical carbon dioxide Part II takes a practical approach and addresses the thermodynamic framework equations of state fluid phase equilibria heat and mass transfer chemical equilibria and reaction kinetics of supercritical fluids Spreadsheets are arranged as Visual Basic for Applications VBA functions and macros that are completely source code accessible for students who have interest in developing their own programs Programming is not required to solve problems or to complete projects in the text Property worksheets spreadsheets that are easy to use in learning environments Worked examples with Excel VBA Worksheet functions allow users to design their own processes Fluid phase equilibria and chemical equilibria worksheets allow users to change conditions study new solutes co solvents chemical systems or reactions

**Healthful Lipids** Casimir C. Akoh, 2019-05-08 Healthful Lipids addresses critical and current regulatory issues and emerging technologies as well as the efforts made toward the production of healthier lipids This book examines the latest technological advancements and the emerging technologies in processing and analysis health related concerns and strategies used in the production and appl

**Supercritical Fluid Technology for Drug Product Development** Peter York, Uday B. Kompella, Boris Y. Shekunov, 2004-03-23 Interconnecting the fundamentals of supercritical fluid SCF technologies their current and anticipated utility in drug delivery and process engineering advances from related methodological domains and pharmaceutical applications this volume unlocks the potential of supercritical fluids to further

the development of improved pharmaceutical products from drug powders for respiratory delivery to drug delivery systems for controlled release      **Alternatives to Conventional Food Processing 2nd Edition** Andrew Proctor, 2018-01-17 This updated edition provides a review of the current major technologies that reduce energy cost and reduce environmental impact while maintaining food safety and quality      Supercritical Fluid Technology in Oil and Lipid Chemistry Jerry W. King, Gary R. List, 1996 Thermodynamics of supercritical fluids with respect to lipid containing systems Solubility measurement of lipid constituents in supercritical fluids Supercritical fluid extraction of oilseeds lipids in natural products Supercritical fractionation of lipids Oilseed solubility and extraction modeling Modeling of the supercritical fluid extraction rate of oilseeds Design and economic analysis of supercritical fluid extraction processes Supercritical fluid extraction and fractionation of fish oils Supercritical fluid extraction of egg lipids Supercritical fluid extraction of Cocoa and Cocoa products Supercritical CO<sub>2</sub> extraction of meat products and edible animal fats for cholesterol reduction Supercritical fluid extraction of algae Effect of supercritical fluids on residual meals and protein functionality Treatment of food materials with supercritical carbon dioxide Enzymatic synthesis in supercritical fluids Basic principles and the role of supercritical fluid chromatography in lipid analysis Supercritical fluid chromatography for the analysis of oleochemicals Supercritical fluid chromatography of trace components in oils and fats Analytical supercritical fluid extraction for oil and lipid analysis

**Pesticide Risk Assessment** Sumitra Arora, 2019-04-08 We have been witnessing a silent chemical revolution over the past half century Pesticides bring widespread environmental contamination with residues detected far from their site of application These substances are playing havoc with the lives of humans and the environment because of their indiscriminate use Pesticide Risk Assessment describes the environmental risks associated with the injudicious use of pesticides and their mixtures their methods of estimation and assessment and their regulation It also contains methods to reduce and minimize the risks associated with the use of pesticides The book Examines pesticides their impact on the environment mode of action estimation methods risk assessment mixture toxicity alternatives for risk reduction and regulatory aspects Includes global case studies detailing cases of pesticide poisoning and the health effects of exposure to pesticides Covers risks to human health aquifers and aquatic organisms pollinators soil micro flora and fauna terrestrial organisms and wildlife Suitable for anyone involved in pesticide application and integrated pest management this is essential reading for researchers scientists extension workers and policy makers      *Plant-Derived Antimycotics* M.k. Rai, Donatella Mares, 2024-11-01 An important overview of the state of the art in naturally occurring antimycotics Here is a comprehensive and innovative examination of the antimycotic potential of essential plant oils and extracts against fungal infections affecting humans animals plants and foodstuffs Plant Derived Antimycotics emphasizes the antimycotic activity of plants found in Central America India Nepal Fiji and China areas rich in phyto diversity and traditional botanical medical knowledge From editor M K Rai Since the inception of human civilization men have been using herbs against various mycotic infections In the recent past several antimycotic

agents have been introduced into the market due to their rapid curative properties. Still the quest for new antifungal agents of a fungicidal rather than fungistatic nature continues. Furthermore, there has been a dramatic increase in the new spectrum of fungal infections known as opportunistic fungal pathogens. Consequently, plant-derived antimycotics are gaining importance, being natural, cheaper, safer, eco-friendly, and within the reach of the common man. With a distinguished list of contributors from around the world, *Plant Derived Antimycotics* explores antifungal compounds that strengthen plant defense systems, traditional herbs that have revealed their antifungal properties, newer faster methods of screening and evaluating antifungal drugs, natural antimycotics derived from plants in Croatia, South America, South Africa, China, India, and Fiji, the mechanism of herbal antimycotic action, the diversity of antimycotic efficacy in Asteraceous and Meliaceae plants, new bioactive antifungal molecules. *Plant Derived Antimycotics* is an essential reference for pharmacologists, microbiologists, clinical mycologists, oncologists, immunologists, drug manufacturers, botanists, and ethnobotanists, phytochemists, herbalists, and everyone searching for a natural remedy for the new spectrum of opportunistic fungal infections generated by the immunocompromising difficulties encountered by AIDS and cancer patients. Color illustrations, photographs, charts, tables, and graphs make the information easier to absorb and understand.

Design and Use of Superior Asphalt Binders Richard R. Davison, 1994. This study uses supercritical fractionation of asphalt to study the effect of asphalt composition changes on properties and to use this knowledge to reblend fractions to make superior asphalts. Both supercritical cyclohexane and supercritical pentane have been used to fractionate three reduced crudes and the corresponding AC 20 asphalts into a range of fractions. Graphs



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