

Supercritical Fluid Cleaning Fundamentals Technology And Applications

Supercritical Fluid Cleaning Developments in Surface Contamination and Cleaning - Vol 5 Handbook of Semiconductor Manufacturing Technology Particles on Surfaces: Detection, Adhesion and Removal, Volume 7 Physico-chemical Aspects of Textile Coloration Heat Transfer & Fluid Flow Digest Developments in Surface Contamination and Cleaning: Applications of Cleaning Techniques Fluidization: Fundamental Studies, Solid-fluid Reactions, and Applications Fundamentals and Numerical Modeling of Unit Operations in the Forest Products Industries Fundamental Study of Clean Rooms FUNDAMENTAL CONCEPTS IN GAS CLEANING WITH SPECIAL REFERENCE TO GAS PHASE SEPARATION. Fundamentals of Tribology Egan's Fundamentals of Respiratory Care Laboratory Manual on Fundamental Principles of Bacteriology JJAPA Handbook for the Physiological Laboratory, Containing an Exposition of the Fundamental Facts of the Science, with Explicit Directions for Their Demonstration ... A Fundamental Study of Filter Loading with Liquid Aerosols Fundamental Aspects of Gas-liquid Flows Proceedings of the ASME Heat Transfer Division, 2000 Pulp and Paper Manufacture: Alkaline pulping Samuel P. Sawan Rajiv Kohli Yoshio Nishi Kash L. Mittal Stephen M. Burkinshaw Rajiv Kohli American Institute of Chemical Engineers Brian N. Brogdon S. M. Reza Sadjadi WILLIAM NEMITS WITHERIDGE Nam P. Suh Craig L. Scanlan Anthony Joseph Salle Sir John Burdon-Sanderson Gary S. Earnest American Society of Mechanical Engineers. Winter Annual Meeting Jong H. Kim Michael J. Kocurek

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although supercritical fluid scf technology is now widely used in extraction and purification processes in the petrochemical food and pharmaceuticals industries this book is the first to address the new application of cleaning the objective is to provide a roadmap for readers who want to know whether scf technology can meet their own processing and cleaning needs it is particularly helpful to those striving to balance the requirements for a clean product and a clean environment the interdisciplinary subject matter will appeal to scientists and engineers in all specialties ranging from materials and polymer sciences to chemistry and physics it is also useful to those developing new processes for other applications and references given at the end of each chapter provide links to the wider body of scf literature the book is organized with topics progressing from the fundamental nature of the supercritical state through process conditions and materials interactions to economic considerations practical examples are included to show how the technology has been successfully applied the first four chapters consider principles governing scf processing detailing issues such as solubility design for cleanability and the dynamics of particle removal the next three chapters discuss surfactants and microemulsions scf interaction with polymers and the use of supercritical carbon dioxide co₂ as a cleaning solvent the closing chapters focus on more practical considerations such as scaleup equipment costs and financial analysis

in this series rajiv kohli and kash mittal have brought together the work of experts from different industry sectors and backgrounds to provide a state of the art survey and best practice guidance for scientists and engineers engaged in surface cleaning or dealing with the consequences of surface contamination this volume complements volumes 3 and 4 of this series which focused largely on particulate contaminants the expert contributions in this volume cover methods for removal of non particulate contaminants such as metallic and non metallic thin films hydrocarbons toxic and hazardous chemicals and microbiological substances as well as contamination monitoring in pharmaceutical manufacturing and an innovative method for characterization at the nanoscale comprehensive coverage of innovations in surface contamination and cleaning written by established experts in the contamination and cleaning field each chapter is a comprehensive review of the state of the art case studies included

retaining the comprehensive and in depth approach that cemented the bestselling first edition s place as a standard reference in the field the handbook of semiconductor manufacturing technology second edition features new and updated material that keeps it at the vanguard of today s most dynamic and rapidly growing field iconic experts robert doering and yoshio nishi have again assembled a team of the world s leading specialists in every area of semiconductor manufacturing to provide the most reliable authoritative and industry leading information available stay current with the latest technologies in addition to updates to nearly every existing chapter this edition features five entirely new contributions on silicon on insulator soi materials and devices supercritical co₂ in semiconductor cleaning low ϵ dielectrics atomic layer deposition damascene copper electroplating effects of terrestrial radiation on integrated circuits ics reflecting rapid progress in many areas several chapters were heavily revised and updated and in some cases rewritten to reflect rapid advances in such areas as interconnect technologies gate dielectrics photomask fabrication ic packaging and 300 mm wafer fabrication while no book can be up to the minute with the advances in the semiconductor field the handbook of semiconductor manufacturing technology keeps the most important data methods tools and techniques close at hand

this volume documents the proceedings of the 7th international symposium on particles on surfaces detection adhesion and removal held in newark nj june 19 21 2000 the study of particles on surfaces is extremely important in a host of diverse technological areas ranging from microelectronics to optics to biomedical this volume contains a total of 28 papers which were all properly peer reviewed revised and edited before inclusion therefore this book is not merely a collection of unreviewed manuscripts but rather represents information which has passed peer scrutiny furthermore the authors were asked to update their manuscripts so the information contained in this book should be current and fresh this volume is divided into two parts 1 particle analysis and general cleaning related topics and 2 particle adhesion and removal the topics covered include surface analysis techniques for particle identification cleaning rinsing and drying issues in post cmp cleaning fundamental forces involved in particle adhesion factors affecting adhesion of small nanosize particles factors important in particle detachment particle adhesion measurement by afm various wet and dry techniques for particle removal e g laser ultrasonic megasonic use of surfactants toner particles and pharmaceutical particles this volume offers a wealth of information on the tremendously technologically important field of particles on surfaces and should provide a consolidated source of current r d activity in this arena therefore it will be of value and use to anyone interested in the topic of particles on surfaces

the production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products as the great majority of such products are coloured predominantly using aqueous dyeing processes the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material the development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres physico chemical aspects of textile coloration provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural man made and synthetic fibres with the principal types of dye the book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing dyeing as an area of study as well as the terminology employed in dyeing technology and science contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres polyester polyamide wool polyacrylonitrile and silk fibres non aqueous dyeing as represented by the use of air organic solvents and supercritical co₂ fluid as alternatives to water as application medium the up to date text is supported by a large number of tables figures and illustrations as well as footnotes and widespread use of references to published work the book is essential reading for students teachers researchers and professionals involved in textile coloration

developments in surface contamination and cleaning applications of cleaning techniques volume eleven part of the developments in surface contamination and cleaning series provides a guide to recent advances in the application of cleaning techniques for the removal of surface contamination in various

industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography the material in this new edition compiles cleaning applications into one easy reference that has been fully updated to incorporate new applications and techniques taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning presents the latest reviewed technical information on precision cleaning applications as written by established experts in the field provides a single source on the applications of innovative precision cleaning techniques for a wide variety of industries serves as a guide to the selection of precision cleaning techniques for specific applications

as its title implies the 15 papers included in the book cover both fundamental technologies and practices in pulping bleaching chemical recovery paper recycling and papermaking as well as the use of new numerical modelling techniques to optimize these operations

this volume provides an overview of tribology and a forum for diverse views on this crucial subject

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