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MAOHONG FAN

SUPERCritical FLUID TECHNOLOGY

FOR ENERGY AND
ENVIRONMENTAL APPLICATIONS

Supercritical Fluid Technology For Energy And Environmental Applications

Casimir C. Akoh



Supercritical Fluid Technology For Energy And Environmental Applications:

Supercritical Fluid Technology for Energy and Environmental Applications Vladimir Anikeev, Maohong Fan, 2013-12-21 Supercritical Fluid Technology for Energy and Environmental Applications covers the fundamental principles involved in the preparation and characterization of supercritical fluids SCFs used in the energy production and other environmental applications Energy production from diversified resources including renewable materials using clean processes can be accomplished using technologies like SCFs This book is focused on critical issues scientists and engineers face in applying SCFs to energy production and environmental protection the innovative solutions they have found and the challenges they need to overcome The book also covers the basics of sub and supercritical fluids like the thermodynamics of phase and chemical equilibria mathematical modeling and process calculations A supercritical fluid is any substance at a temperature and pressure above its critical point where distinct liquid and gas phases do not exist At this state the compound demonstrates unique properties which can be fine tuned making them suitable as organic solvents in a range of industrial and laboratory processes This volume enables readers to select the most appropriate medium for a specific situation It helps instructors prepare course material for graduate and postgraduate courses in the area of chemistry chemical engineering and environmental engineering And it helps professional engineers learn supercritical fluid based technologies and use them in solving the increasingly challenging environmental issues Relates theory chemical characteristics and properties of the particular supercritical fluid to its various applications Covers the fundamentals of supercritical fluids like thermodynamics of phase and chemical equilibria mathematical modeling and process calculations Includes the most recent applications of supercritical fluids including energy generation materials synthesis and environmental protection [Advanced Applications of Supercritical Fluids in Energy Systems](#) Chen, Lin, Iwamoto, Yuhiro, 2017-03-24 Supercritical fluids have been utilized for numerous scientific advancements and industrial innovations As the concern for environmental sustainability grows these fluids have been increasingly used for energy efficiency purposes Advanced Applications of Supercritical Fluids in Energy Systems is a pivotal reference source for the latest academic material on the integration of supercritical fluids into contemporary energy related applications Highlighting innovative discussions on topics such as renewable energy fluid dynamics and heat and mass transfer this book is ideally designed for researchers academics professionals graduate students and practitioners interested in the latest trends in energy conversion **Handbook of Research on Advancements in Supercritical Fluids Applications for Sustainable Energy Systems** Chen, Lin, 2020-08-28 Supercritical fluids are increasingly being used in energy conversion and fluid dynamics studies for energy related systems and applications These new applications are contributing to both the increase of energy efficiency as well as greenhouse gas reduction Such research is critical for scientific advancement and industrial innovations that can support environmentally friendly strategies for sustainable energy systems The Handbook of Research on Advancements in Supercritical Fluids Applications for

Sustainable Energy Systems is a comprehensive two volume reference that covers the most recent and challenging issues and outlooks for the applications and innovations of supercritical fluids The book first converts basic thermo dynamic behaviors and abnormal properties from a thermophysical aspect then basic heat transfer and flow properties recent new findings of its physical aspect and indications chemical engineering properties micro nano scale phenomena and transient behaviors in fast and critical environments It is ideal for engineers energy companies environmentalists researchers academicians and students studying supercritical fluids and their applications for creating sustainable energy systems

Frontiers on Separation Science and Technology Sung Hyun Kim,Zhangfa Tong,2004 This book presents the latest achievements of separation science and technology It highlights the application of separation with regard to problems of current interest such as the protection of the environment and the development of emerging technology including chemical engineering biotechnology renewable energy sources and recycling of materials

Advances in Biofuels Production, Optimization and Applications Mejdi Jeguirim,Antonis A. Zorpas,2023-09-08 Advances in Biofuels Production Optimization and Applications discusses the optimization of chemical biochemical thermochemical and hydrothermal processes for biofuels With a strong focus on applications the book bridges the gap between technological developments and prospects of commercialization Initial chapters review efficient hydrolysis and biofuel and bio alcohol production before reviewing key processes such as biomass gasification syngas conversion to biofuel and pyrolysis techniques Several biofuel applications are presented including those within the transport industry as well as domestic and industrial boilers The book then finishes with a review of the circular economy biofuel policies and ethical considerations This will act as a systematic reference on the range of biomass conversion processes and technologies in biofuels production It is an essential read for students researchers and engineers interested in renewable energy biotechnology biofuels production and chemical engineering Provides recent advances in the processes and technologies currently used for biofuel production Addresses the technology transfer of integrated biofuel upgrading and production at large scale Highlights policy and economics of biofuel production biofuel value chains and how to accomplish cost competitive results and sustainable development Examines recent development in engines and boiler technologies for the eco friendly applications of these biofuels in the industry and transport sectors

Emerging and Traditional Technologies for Safe, Healthy and Quality Food Viktor Nedović,Peter Raspor,Jovanka Lević,Vesna Tumbas Šaponjac,Gustavo V. Barbosa-Cánovas,2015-12-16 Since its inception in 2002 the Central European Food Congress CEFood has been a biannual meeting intended for food producers and distributors as well as researchers and educators to promote research development innovation and education within food science and technology in the Middle European region with a tight connection to global trends The 6th CEFood held in Novi Sad Serbia May 23 26 2012 highlighted the novel technologies and traditional foods aimed at both the European and global markets Specifically CEFood 2012 focused on the latest progress in fundamental and applied food science research and development innovative

technology food ingredients novel trends in nutrition and health functional and bioactive food food engineering food safety and quality and the food and feed market This book will consist of contributions from various presenters at CEFood 2012 covering the major themes of this Congress Chapters contributed by expert presenters from the 6th CEFood Congress of 2012 Highlights the novel technologies of food science Discusses the future of the food industry and food research

Nanofluids Mohammad Hatami, 2024-06-22 Nanofluids Advanced Applications and Numerical Simulations combines the mathematical and numerical studies of nanofluids and their application to a range of applications The book begins by introducing the principles of nanofluids structures types properties methods and stability This is followed by a detailed chapter that explains a full range of numerical techniques for the modeling of nanofluids Subsequent chapters offer in depth coverage of target areas including cooling and heating applications micro electric and magnetic devices chemistry and oil recovery biomedicine renewable energy and automotive engineering Throughout the book methods for numerical modelling are described in detail with supporting equations techniques and applied examples This is a valuable resource for advanced students scientists engineers and R D professionals working with nanofluids simulation and numerical methods for advanced applications as well as researchers across nanotechnology biomedicine electronics energy chemistry materials science and mechanical engineering Presents numerical methods for modelling of nanofluids in details Examines stability magnetic field electric field and other effects on behavior and optical properties Explores cutting edge applications of nanofluids by numerical methods

Handbook of Semiconductor Manufacturing Technology Yoshio Nishi, Robert Doering, 2017-12-19 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 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

Supercritical Water Processing Technologies for Environment, Energy and Nanomaterial Applications Shuzhong Wang, Donghai Xu, Yang Guo, Xingying Tang, Yuzhen Wang, Jie Zhang, Honghe Ma, Lili Qian, Yanhui Li, 2019-09-18 This book systematically presents the

technical aspects of supercritical water oxidation and supercritical water gasification for energy and environmental applications which include reactor design construction materials corrosion salt precipitation etc The book provides a comprehensive introduction to the properties of supercritical water and the industrial applications reaction mechanisms and reaction kinetics of supercritical water oxidation SCWO and supercritical water gasification SCWG The reactions occurring in supercritical water are complex and studying their reaction mechanisms is of great importance for the development of supercritical water processing technologies Accordingly the book explains the oxidative mechanisms and kinetics of organic matter in supercritical water in detail However the harsh reaction conditions in supercritical water can easily create severe reactor corrosion and salt deposition problems Therefore the book also comprehensively reports on the mechanism analysis state of research and development trends regarding these two problems Lastly the book summarizes the development of supercritical water processing technologies including studies on SCWO and SCWG as well as near zero emission systems of pollutants based on SCWO technology In short the book provides a wealth of valuable information for all readers who are interested in using SCWO for organic waste treatment and in using SCWG for hydrogen production with wet biomass

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

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