Supercritical Fluids Fundamentals For Application

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Supercritical Fluid Technology in Materials Science and Engineering. Y.-Ping Sun 2002-03-26 The title aims to comprehend chemical reactions, structures and fundamental properties of supercritical fluids for the production of new compounds, nanomaterials, fibers, and fuels. It comprises contemporary research and technological advancements, including gasification and reactions, and the applications of supercritical fluids. This handbook includes chapters on the fundamentals, experimental techniques, and theoretical aspects of supercritical fluids. By examining these contents, one can comprehend the fundamental principles involved in the chemistry and physics of supercritical fluids.

Supercritical Fluids: Methods, Fundamentals and Modeling offers a comprehensive review of the current status of research, development and insights on promising future directions, covering the synthesis of nanostructured materials using supercritical fluid-assisted processes. The book presents fundamental aspects such as high-pressure phase behavior of near and/or supercritical fluids, kinetic and thermodynamic properties of supercritical fluids, and the key knowledge about the liquid and supercritical fluid states.

The Liquid and Supercritical Fluid States of Matter (June 6, 2004-18:09) This book addresses various subjects and researchers wishing to understand the liquid and supercritical fluid states of matter, presenting a single cohesive treatment of the liquid and supercritical fluid states using the chemistry and solid-state approaches. Besides this section, the book includes discussions on the chemistry and solid-state approaches for describing the use of supercritical fluids in daily life and research, for example in porous generation, and presents the current body of scientific literature on the subject. The book also provides a guide to the current literature on the use of supercritical fluids in various applications, including their applications in chemistry, materials science, and engineering.

Synthesis of Nanostructured Materials in Near and/or Supercritical Fluids (May 6, 2005-18:09) This book offers a comprehensive introduction to the subject of supercritical fluids and their applications in the synthesis of nanostructured materials. It presents the synthesis of nanostructured materials using supercritical fluid-assisted processes and covers the synthesis of nanostructured materials using supercritical fluid-assisted processes. The book also provides a guide to the current literature on the use of supercritical fluids in various applications, including their applications in chemistry, materials science, and engineering.

Gas Extraction: Geo-Bio: Application of SuperCritical CO2 (Dec 3, 2004-18:09) Application of supercritical CO2 is found widespread interest within the scientific community. Its processes have industrial applications. Gas Extraction deals with the possibilities of supercritical CO2 as solvents for separation processes. The volume comprises physical chemical aspects, with chemical reaction engineering in the process industry. The book provides a guide to the current literature on the use of supercritical fluids in various applications, including their applications in chemistry, materials science, and engineering.

Applications of SuperCritical Carbon Dioxide (SCCO2) Based Power Cycl (Nov 29, 2004-18:09) This book provides a comprehensive introduction to the subject of supercritical fluids and their applications in the synthesis of nanostructured materials. It presents the synthesis of nanostructured materials using supercritical fluid-assisted processes and covers the synthesis of nanostructured materials using supercritical fluid-assisted processes. The book also provides a guide to the current literature on the use of supercritical fluids in various applications, including their applications in chemistry, materials science, and engineering.