Khan / Bhawani / Ullah

Supercritical Fluid Technology for Materials Processing, Engineering and Biomedical Applications



Supercritical Fluid Technology for Materials Processing, Engineering and Biomedical Applications provides a comprehensive review of the latest advances in this important research field. The book covers all aspects including the processes involved, the physical and chemical characteristics of this kind of medium, together with their exceptional transport properties and their future potential for a whole range of applications in impregnation and cleaning, multistage counter current separation, biomedical, particle formation, coatings, and reactive systems such as hydrogenation, biomass gasification, and supercritical water oxidation. Furthermore, the book highlights supercritical fluid technology as an alternative method that operates under mild conditions and can take advantage of the tunable properties of the fluid phase. The book will be a valuable reference source for academic and industrial researchers, as well as materials scientists and engineers working in the processing and engineering of supercritical fluids for a diverse range of industrial applications.

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