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KYLAN STEWART

**The Korean Journal of Chemical
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Since the late 1970s there has been an explosion of industrial and academic interest in circulating fluidized beds. In part, the attention has arisen due to the environmental advantages associated with CFB (circulating fluidized bed) combustion systems, the incorporation of riser reactors employing circulating

fluidized bed technology in petroleum refineries for fluid catalytic cracking and, to a lesser extent, the successes of CFB technology for calcination reactions and Fischer-Tropsch synthesis. In part, it was also the case that too much attention had been devoted to bubbling fluidized beds and it was time to move on to more complex and more advantageous regime, S of operation. Since 1980 a number of CFB processes have been commercialized. There have been five successful International Circulating Fluidized Bed Conferences beginning in 1985, the most recent taking place in

Beijing in May 1996. In addition, we have witnessed a host of other papers on CFB fundamentals and applications in journals and other archival publications. There have also been several review papers and books on specific CFB topics. However, there has been no comprehensive book reviewing the field and attempting to provide an overview of both fundamentals and applications. The purpose of this book is to fill this vacuum.

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**Inorganic Carbon
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Press

The 24th European Symposium on Computer Aided Process Engineering creates an international forum where scientific and industrial contributions of computer-aided techniques are presented with applications in process modeling and simulation, process synthesis and design, operation, and process optimization. The organizers have broadened the boundaries of Process Systems Engineering by inviting contributions at different scales of modeling and demonstrating vertical and horizontal integration. Contributions

range from applications at the molecular level to the strategic level of the supply chain and sustainable development. They cover major classical themes, at the same time exploring a new range of applications that address the production of renewable forms of energy, environmental footprints and sustainable use of resources and water.

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Styrenes—Advances in Research and Application: 2012 Edition

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Separation processes are challenging steps in any process industry for isolation of products and recycling of reactants. Membrane technology has shown immense potential in separation of liquid and gaseous mixtures, effluent treatment, drinking water purification and solvent recovery. It has found endless popularity and wide acceptance for its small footprint, higher selectivity, scalability, energy saving capability and inherent ease of integration into other unit operations. There are many

situations where the target component cannot be separated by distillation, liquid extraction, and evaporation. The different membrane processes such as pervaporation, vapor permeation and membrane distillation could be used for solving such industrial bottlenecks. This book covers the entire array of fundamental aspects, membrane synthesis and applications in the chemical process industries (CPI). It also includes various applications of pervaporation, vapor permeation and membrane distillation in industrially and socially relevant problems including separation of azeotropic mixtures, close-boiling compounds, organic-organic mixtures, effluent treatment along with brackish and seawater desalination, and many others. These processes can also

be applied for extraction of small quantities of value-added compounds such as flavors and fragrances and selective removal of hazardous impurities, viz., volatile organic compounds (VOCs) such as vinyl chloride, benzene, ethyl benzene and toluene from industrial effluents. Including case studies, this is a must-have for any process or chemical engineer working in the industry today. Also valuable as a learning tool, students and professors in chemical engineering, chemistry, and process engineering will benefit greatly from the groundbreaking new processes and technologies described in the volume.

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With coverage of a broad range of key engineering materials, this book provides a single, comprehensive book summarizing all aspects involved in the functional materials production chain. It introduces state-of-the-art technology in key engineering materials, emphasizing the rapidly growing technologies. It takes a unique approach by presenting spe

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confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. ScholarlyEditions Polymer nanocomposites continue to receive widespread acclaim for their potential to improve composite materials beyond the use of conventional macroscale fillers. Nanofillers in nanocomposites are used in a broad range of applications because their ease of processing, low price and a combination of advantageous properties. In the last decade, nanofiller particles have prompted much attention and become a developing field in nanocomposites. The main objective of this book is to show how a particle size at the nano scale offers a large surface area and good dispersion behaviour.

Detailed information is provided to show that the use of nanofillers is very promising for improving the physical properties more effectively than conventional types of fillers. This book provides up-to-date information on recent advances in various aspects of modern composites reinforced by nanofillers, including their fabrication and engineering properties. The change in such properties can be related to the subsequent conformational changes, but there is controversy about the conformational behaviour of polymer chains when perturbed by nanoparticles. To accomplish these tasks, this book focuses on the behaviour of nanoparticles in both morphology control and reinforcement.

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