



Nanoporous Materials: Advanced Techniques for Characterization, Modeling, and Processing

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Having successfully replaced elements used in traditional, pollution-prone, energy-consuming separation processes, nanoporous materials play an important role in chemical processing. Although their unique structural or surface physicochemical properties can, to an extent, be tailored to meet specific process-related requirements, the task of characterizing them completely is still a difficult and frequently controversial problem.

Nanoporous Materials: Advanced Techniques for Characterization, Modeling, and Processing outlines existing and expected innovations in the combination of characterization and modeling techniques used to distinguish, monitor, and control the evolution of properties in nanoporous sorbents, catalysts, and membranes during their synthesis and utilization in several important energy processes.

Providing broad coverage of the subject to make it useful for academic and industrial researchers from different disciplines and backgrounds, this book:

- Presents the basic principles and major applications of key characterization techniques—from diffraction and spectroscopy to calorimetry and permeability
- Explores computer simulation techniques, an indispensable complement to the combination of the aforementioned analytical techniques
- Covers the fundamentals and the recent advances in sorption, membrane, and catalyst processes
- Describes two characteristic case studies on emerging areas of application of porous solids in the fields of gas-to-liquid conversion and hydrogen storage

This reference takes a detailed approach to the subject, starting with basics, so that beginners or non-expert readers can learn and apply presented fundamentals and examples to their work. Organized into well-focused sections written by internationally known experts, this book includes case studies, end-of-chapter problems, and illustrative video presentations of basic principles.

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