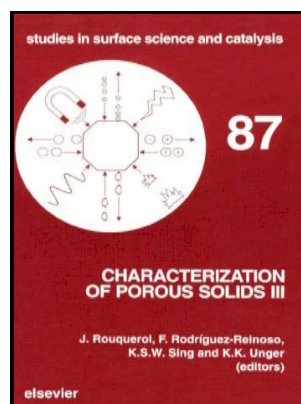


Characterization of porous solids

Elsevier - Journal of Porous Materials



Description: -

- Porous materials.Characterization of porous solids

- Studies in surface science and catalysis -- v.39.Characterization of porous solids

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The preparation and characterization of porous silica spheres of a controlled texture C. The reader will find the description and discussion of a number of novel techniques as well as a critical appraisal and comparison of the more established methods.

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Abstract: The importance of porosity has long been recognized by scientists and engineers.

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These characterization methods were shown to be applied to all types of porous solids such as clays, carbons, ordered mesoporous materials, porous glasses, oxides, zeolites and metal organic frameworks. The two different techniques of nitrogen sorption and mercury porosimetry, which are generally utilized completely sep.

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Analysis of pore structure via spin-lattice relaxation measurements D.

The role of accessibility in the characterization of porous solids and their adsorption properties

For mesoporous materials, MFX imaging alone cannot currently map the spatial distribution of pore size. Light micrograph studies have shown that the spatial distribution of entrapped mercury is highly heterogeneous. This book contains 99 of the papers that were presented at the 6th in the series of Symposia on Characterization of Porous Solids held in Alicante, Spain, May 2002.

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To improve the meaningfulness of derived properties and to minimize statistical uncertainties, practical recommendations and guidelines are proposed for experimental operation variables and data analysis. Forced unsteady state conditions generate unique distributions of process parameters and catalyst states often unattainable with traditional, steady-state operation. However, in this work it has been shown that the already extensive capabilities of MFX imaging may be even further enhanced by a combination of it with the more traditional techniques of mercury porosimetry and nitrogen sorption.

Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density

The conference is one of a series, held every three years, which covers developments in methods for the characterisation of porous materials, and applications of those methods. For mesoporous materials, MFX imaging alone cannot currently map the spatial distribution of pore size.

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