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Description The 7th International Symposium on the Characterization of Porous Solids (COPS-VII) was held in the Congress Centre in Aix-en-Provence between the 25th-28th May 2005. The symposium covered recent results of fundamental and applied research on the characterization of porous solids.

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Widely used in adsorption, catalysis and ion exchange, the family of molecular sieves such as zeolites has been greatly extended and many advances have recently been achieved in the field of molecular sieves synthesis and related porous materials. Chemistry of Zeolites and Related Porous Materials focuses on the synthetic and structural chemistry of the major types of molecular sieves. It offers a systematic introduction to and an in-depth discussion of microporous, mesoporous, and macroporous materials and also includes metal-organic frameworks. Provides focused coverage of the key aspects of molecular sieves Features two frontier subjects: molecular engineering and host-guest advanced materials Comprehensively covers both theory and application with particular emphasis on industrial uses This book is essential reading for researchers in the chemical and materials industries and research institutions. The book is also indispensable for researchers and engineers in R&D (for catalysis) divisions of companies in petroleum refining and the petrochemical and fine chemical industries.

The declared objective of this book is to provide an introductory review of the various theoretical and practical aspects of adsorption by powders and porous solids with particular reference to materials of technological importance. The primary aim is to meet the needs of students and non-specialists who are new to surface science or who wish to use the advanced techniques now available for the determination of surface area, pore size and surface characterization. In addition, a critical account is given of recent work on the adsorptive properties of activated carbons, oxides, clays and zeolites. Provides a comprehensive treatment of adsorption at both the gas/solid interface and the liquid/solid interface Includes chapters dealing with experimental methodology and the interpretation of adsorption data obtained with porous oxides, carbons and zeolites Techniques capture the importance of heterogeneous catalysis, chemical engineering and the production of pigments, cements, agrochemicals, and pharmaceuticals

The growth of interest in newly developed porous materials has prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience. One might consider this new book as the 4th edition of "Powder Surface Area and Porosity" (Lowell & Shields), but for this new edition we set out to incorporate recent developments in the understanding of fluids in many types of porous materials, not just powders. Based on this, we felt that it would be prudent to change the title to "Characterization of Porous Solids and Powders: Surface Area, Porosity and Density". This book gives a unique overview of principles associated with the characterization of solids with regard to their surface area, pore size, pore volume and density. It covers methods based on gas adsorption (both physi and chemisorption), mercury porosimetry and pycnometry. Not only are the theoretical and experimental basics of these techniques presented in detail but also, in light of the tremendous progress made in recent years in materials science and nanotechnology, the most recent developments are described. In particular, the application of classical theories and methods for pore size analysis are contrasted with the most advanced microscopic theories based on statistical mechanics (e.g. Density Functional Theory and Molecular Simulation). The characterization of heterogeneous catalysts is more prominent than in earlier editions; the sections on mercury porosimetry and particularly chemisorption have been updated and greatly expanded.

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. Written by leading international specialists in the subject, the contributions represent an up-to-date and authoritative account of recent developments around the world in the major methods used to characterize porous solids. The book is a useful work of reference for anyone interested in characterizing porous solids, such as MCM-41 mesoporous materials, pillared clays, etc. Papers on pore structure determination using gas adsorption feature strongly, together with papers on small angle scattering methods, mercury porosimetry, microcalorimetry, scanning probe microscopes, and image analysis.

Cover -- Contents -- Preface -- Committees -- Financial support -- Chapter 1. Scanning probe microscopies for the characterization of porous solids: strengths and limitations -- Chapter 2. Role of gas adsorption in nanopore characterization -- Chapter 3. Reconstruction method for the characterization of porous carbons -- Chapter 4. A new method for microporosity detection based on the use of the corrugated pore structure model (CPSM) -- Chapter 5. Physisorption in nanopores of various sizes and shapes: a Grand Canonical Monte Carlo simulation study -- Chapter 6. Induced porosity in cross-linked polymer networks: Mean field theory and simulations -- Chapter 7. Microbeam small angle X-ray scattering (eSAXS): a novel technique for the characterization of activated carbon fi -- Chapter 8. "Real time" determination of porosity development in carbons: a combined SAXS/ITGA approach -- Chapter 9. SANS investigations of adsorption mechanisms in model porous silicas -- Chapter 10. Preparation and ...

Porous carbon materials are at the heart of many applications, including renewable energy storage and generation, due to their superior physical properties and availability. The environmentally-friendly production of these materials is crucial for a sustainable future. This book focuses on the transformation of sustainable precursors into functional, porous carbonaceous materials via the two most significant approaches: Starbon® and Hydrothermal Carbonisation. Covering cutting-edge research and emerging areas, chapters cover applications of porous carbon materials in catalysis and separation science as well as in energy science. Moreover, the challenges of characterization of these materials and their commercialization are explained by worldwide experts. The content will be accessible and valuable to post-graduate students and senior researchers alike and it will serve as a significant reference for academics and industrialists working in the areas of materials science, catalysis and separation science.

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