

POWDER TECHNOLOGY SERIES

POWDER SURFACE AREA AND POROSITY

Third edition

S. Lowell and Joan E. Shields



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Powder Surface Area And Porosity

Brian H. Kaye



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

Lowell, Joan E. Shields, Martin A. Thomas, Matthias Thommes, 2006-04-24 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 the sections on mercury porosimetry and particularly chemisorption have been updated and greatly expanded

Characterization of Porous Solids and Powders S Lowell, Joan E Shields, Martin A Thomas, 2004-09-15 This book gives a unique overview of principles associated with the characterization of solids with regard to their surface area pore size and density The book covers methods based on Gas Adsorption Physi and Chemisorption Mercury Porosimetry and Pycnometry Not only are the theoretical and experimental basics of these techniques described but also the most recent developments particularly in light of the tremendous progress made in recent years in Materials Science and Nanotechnology The application of classical theories and methods for pore size analysis are discussed in contrast with the most advanced microscopic theories based on statistical mechanics e g Density Functional Theory and Molecular Simulation The book will appeal both to students and to scientists in industry who are in need of accurate and comprehensive pore and surface area

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Handbook of Non-Ferrous Metal Powders Oleg D Neikov, N. A. Yefimov, Stanislav Naboychenko, 2009-02-24 The manufacture and use of the powders of non ferrous metals has been taking place for many years in what was previously Soviet Russia and a huge amount of knowledge and experience has built up in that country over the last forty years or so Although accounts of the topic have been published in the Russian language no English language account has existed until now Six prominent academics and industrialists from the Ukraine and Russia have produced this highly detailed account which covers the classification manufacturing methods treatment and properties of the non ferrous metals aluminium titanium magnesium copper nickel cobalt zinc cadmium lead tin bismuth noble metals and earth metals The result is a formidable reference source for those in all aspects of the metal powder industry Covers the manufacturing methods properties and importance of the following metals aluminium titanium magnesium copper nickel cobalt zinc cadmium noble metals rare earth metals lead tin and bismuth Expert Russian team of authors all very experienced English translation and update of book previously published in Russian **Characterization of Porous Solids and Powders** ,2006

Characterization of Powders and Aerosols Brian H. Kaye, 2008-07-11 Characterization of fine particles is a difficult task A large number of industries deal with materials in powder form The properties of these powders depend on their particle size particle shape and size distributions surface and porosity What are the methods What are the problems What questions need answering This new book covers the problems of sampling both powders and aerosols and discusses calibration standards for different instruments It takes into account fractionating methods for fine particles e g sieving procedures sedimentation methods and the use of cyclones Image analysis and its use for the measurement of the size and shape of powder grains and light diffraction techniques for size evaluation are presented Furthermore this books covers the most effective methods for measuring surface areas fractal structures of rough surfaces and pore structures of porous bodies Practitioners will find tips for modification of analytical procedures for on line characterization and many graphs for comparing data obtained by different methods are presented Powder Technology Handbook, Fourth Edition Ko Higashitani, Hisao Makino, Shuji Matsusaka, 2019-10-16 The Fourth Edition of Powder Technology Handbook continues to serve as the comprehensive guide to powder technology and the fundamental engineering processes of particulate technology while incorporating significant advances in the field in the decade since publication of the previous edition The handbook offers a well rounded perspective on powder technologies in gas and liquid phases that extends from particles and powders to powder beds and from basic

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Fundamentals of Inorganic Membrane Science and Technology A.J. Burggraaf, L.

Cot, 1996-11-19 Inorganic membrane science and technology is a new field of membrane separation technology which until recently was dominated by the earlier field of polymer membranes Currently the subject is undergoing rapid development and innovation The present book describes the fundamental principles of both synthesis of inorganic membranes and membrane supports and also the associated phenomena of transport and separation in a semi quantitative form Features of this book Examples are given which illustrate the state of the art in the synthesis of membranes with controlled properties Future possibilities and limitations are discussed The reader is provided with references to more extended treatments in the literature Potential areas for future innovation are indicated By combining aspects of both the science and technology of inorganic membranes this book serves as a useful source of information for scientists and engineers working in this field It also provides some observations of important investigators who have contributed to the development of this subject

Pore Structure of Cement-Based Materials Kalliopi K. Aligizaki, 2005-09-22 Pore Structure of Cement Based Materials provides a thorough treatment of the experimental techniques used to characterize the pore structure of materials The text presents the principles and practical applications of the techniques used organized in an easy to follow and uncomplicated manner providing the theoretical background the way to anal

Some Preparation Methods and Physical Characteristics of

UO₂ Powders J. C. Clayton, S. Aronson, 1958

Monthly Progress Report on the Characterization of UO₂ Powders United Nuclear Corporation, 1962

OTS. United States. Dept. of Commerce. Office of Technical Services, 1963

Extrusion Processing Technology Jean-Marie Bouvier, Osvaldo H. Campanella, 2014-06-23 Extrusion is the operation of forming and shaping a molten or dough like material by forcing it through a restriction or die It is applied and used in many batch and continuous processes However extrusion processing technology relies more on continuous process operations which use screw extruders to handle many process functions such as the transport and compression of particulate components melting of polymers mixing of viscous media heat processing of polymeric and biopolymeric materials product texturization and shaping defibering and chemical impregnation of fibrous materials reactive extrusion and fractionation of solid liquid systems Extrusion processing technology is highly complex and in depth descriptions and discussions are required in order to provide a complete understanding and analysis of this area this book aims to provide readers with these analyses and discussions

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