

1. Record Nr.	UNINA9910299741103321
Autore	Volkovich Yuriy M. <1940->
Titolo	Structural Properties of Porous Materials and Powders Used in Different Fields of Science and Technology // by Yury Mironovich Volkovich, Anatoly Nikolaevich Filippov, Vladimir Sergeevich Bagotsky
Pubbl/distr/stampa	London : , : Springer London : , : Imprint : Springer, , 2014
ISBN	1-4471-6377-X
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (331 p.)
Collana	Engineering Materials and Processes, , 1619-0181
Disciplina	620.116
Soggetti	Manufactures Materials science Amorphous substances Complex fluids Manufacturing, Machines, Tools, Processes Characterization and Evaluation of Materials Soft and Granular Matter, Complex Fluids and Microfluidics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Experimental Methods for Investigation of Porous Materials and Powders -- Technical materials -- Natural materials -- Biological materials -- Mathematical Modeling of Filtration Processes in Porous Media -- Conclusion.
Sommario/riassunto	This book provides a comprehensive and concise description of most important aspects of experimental and theoretical investigations of porous materials and powders, with the use and application of these materials in different fields of science, technology, national economy and environment. It allows the reader to understand the basic regularities of heat and mass transfer and adsorption occurring in qualitatively different porous materials and products, and allows the reader to optimize the functional properties of porous and powdered products and materials. Written in a straightforward and transparent manner, this book is accessible to both experts and those without specialist knowledge, and it is further elucidated by drawings, schemes and photographs. Porous materials and powders with different pore

sizes are used in many areas of industry, geology, agriculture and science. These areas include (i) a variety of devices and supplies; (ii) thermal insulation and building materials; (iii) oil-bearing geological, gas-bearing and water-bearing rocks; and (iv) biological objects. Structural Properties of Porous Materials and Powders Used in Different Fields of Science and Technology is intended for a wide-ranging audience specializing in different fields of science and engineering including engineers, geologists, geophysicists, oil and gas producers, agronomists, physiologists, pharmacists, researchers, teachers and students.

---