



Porous Media Fluid Transport and Pore Structure

By F Dullien



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Porous Media: Fluid Transport and Pore Structure presents relevant data on the role of pore structure in terms of transport phenomena in pore spaces. The information is then applied to the interpretation of various experiments and results of model calculations. This book emphasizes the discussion of "flow through porous media" in terms of interactions among the three main factors. These factors are transport phenomena, interfacial effects, and pore structure. An introductory chapter opens the text and presents some of the basic concepts and terms that will be encountered all throughout. Chapters 2 to 4 focus on the important foundations of the physical phenomena as applied in the pore space of porous media. These foundations are capillarity, pore structure, and single phase flow and diffusion.

Chapters 5 to 7 discuss more in detail the different applications of pore structure to various operations and processes. Some of the concepts covered in this part of the book include flow and/or diffusion through a porous medium, simultaneous flow of immiscible fluids and immiscible displacement, and miscible displacement and hydrodynamic dispersion.

This book is a good reference to students, scientists, and engineers in the field of chemistry, physics, and biology.

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