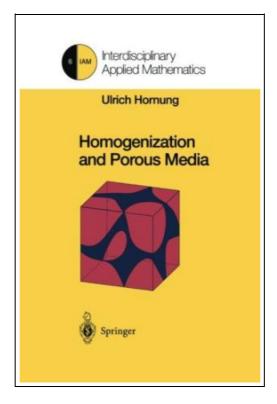
Homogenization and Porous Media



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Reviews

Extremely helpful to any or all category of individuals. It really is rally fascinating through studying time period. I am just quickly could possibly get a pleasure of reading a composed ebook. (Lawrence Keeling)

HOMOGENIZATION AND POROUS MEDIA



Condition: New. Publisher/Verlag: Springer, Berlin | This book offers a systematic, rigorous treatment of upscaling procedures related to physical modeling for porous media on micro-, meso- and macro-scales, including detailed studies of micro-structure systems and computational results for dual-porosity models. | For several decades developments in porous media have taken place in almost independent areas. In civilengineering, many papers were publisheddealing with the foundations offlow and transport through porous media. The method used in most cases is called averaging, and the notion of a representative elementary vol ume(REV)playsanimportantrole. Inchemicalengineering, papersonconceptual models were written on the theory ofmixtures. Intheoretical physics and stochas tic analysis, percolation theory has emerged, providing probabilistic systems where theconnectedness properties of some component dominate the be havior. atheoryhasbeendevelopedcalled homogenizationwhich deals with partial differential equations having rapidly oscillating coefficients. Early work in these and related areas was - among others - done by the fol lowing scientists: Maxwell [Max81] and Rayleigh [Ray92] studied the effective conductivity of media with small concentrations of randomly and periodically, respectively, arranged inclusions. Einstein [Ein06] investigated the effective vis cosityofsuspensions with hard spherical particles in compressible viscous fluids. Marchenko and Khrouslov [MK64] looked at the asymptotic nature of homog enization; they introduced a general approach of averaging based on asymptotic tools which can handle a variety ofdifferent physical problems. Unfortunately, up to now, little efforthas been made to bridge the gap between these different fields of research. Consequently, many results were and are dis covered independently, and scientists are almost unable to understand each other because the respective languages have been developing in different directions. | 1 Introduction.- 1.1 Basic Idea.- 1.2 First Examples.- 1.2.1 One-Dimensional Diffusion.- 1.2.2 Resistor Networks.- 1.2.3 Layered Media.- 1.3 Diffusion in Periodic Media.- 1.3.1 Formal Asymptotic Expansion.- 1.3.2 Application to Layered Media.- 1.3.3 Estimates of the Effective Conductivity Tensor.- 1.3.4 Media with...



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