

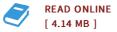
Homogenization and Porous Media

By Hornung, Ulrich

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-, mesoand 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 of mixtures. Intheoretical physics and stochas tic analysis, percolation theory has emerged, providing probabilistic models for systems where theconnectedness

properties of some component dominate the behavior. In mathematics,

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...



Reviews

This book may be worth purchasing. It typically fails to expense excessive. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Ken Watsica

The best book i actually read through. I have got read and so i am sure that i am going to going to read through yet again yet again down the road. You can expect to like the way the author compose this pdf. -- Ludie Willms

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