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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-, 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 civil engineering, many papers were published dealing with the foundations of flow and transport through porous media. The method used in most cases is called averaging, and the notion of a representative elementary volume (REV) plays an important role. In chemical engineering, papers on conceptual models were written on the theory of mixtures. In theoretical physics and stochastic analysis, percolation theory has emerged, providing probabilistic models for systems where the connectedness properties of some component dominate the behavior. In mathematics, a theory has been developed called homogenization which deals with partial differential equations having rapidly oscillating coefficients. Early work in these and related areas was - among others - done by the following 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 viscosity of suspensions with hard spherical particles in compressible viscous fluids. Marchenko and Khroulov [MK64] looked at the asymptotic nature of homogenization; they introduced a general approach of averaging...



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