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Training Set: Multilayer Porous Medium; 3.5 Concluding Remarks; Part

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4.2.6 The Hill Lemma; 4.2.7 The Homogenized Compliance Tensor and Stress Concentration

4.2.8 An Instructive Exercise: Example of an rev for an Isotropic Porous Medium. Hashin's Composite Sphere Assemblage

Sommario/riassunto

Intended as a first introduction to the micromechanics of porous media, this book entitled "Microporomechanics" deals with the mechanics and physics of multiphase porous materials at nano and micro scales. It is composed of a logical and didactic build up from fundamental concepts to state-of-the-art theories. It features four parts: following a brief introduction to the mathematical rules for upscaling operations, the first part deals with the homogenization of transport properties of porous media within the context of asymptotic expansion techniques. The second part deals with linear micropo
