



Nonlinear Homogenization and Its Applications to Composites, Polycrystals and Smart Materials: Proceedings of the NATO Advanced Research Workshop, Held in Warsaw, Poland, 23-26 June 2003

By -

Springer-Verlag New York Inc., United States, 2004. Paperback. Book Condition: New. 2004 ed.. 239 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****. Although several books and conference proceedings have already appeared dealing with either the mathematical aspects or applications of homogenization theory, there seems to be no comprehensive volume dealing with both aspects. The present volume is meant to fill this gap, at least partially, and deals with recent developments in nonlinear homogenization emphasizing applications of current interest. It contains thirteen key lectures presented at the NATO Advanced Workshop on Nonlinear Homogenization and Its Applications to Composites, Polycrystals and Smart Materials. The list of thirty one contributed papers is also appended. The key lectures cover both fundamental, mathematical aspects of homogenization, including nonconvex and stochastic problems, as well as several applications in micromechanics, thin films, smart materials, and structural and topology optimization. One lecture deals with a topic important for nanomaterials: the passage from discrete to continuum problems by using nonlinear homogenization methods. Some papers reveal the role of parameterized or Young measures in description of microstructures and in optimal design. Other papers deal with recently developed methods - both analytical and computational - for...



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