

1. Record Nr.	UNINA9910139470003321
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Titolo	Homogenization of coupled phenomena in heterogenous media [[electronic resource] /] / Jean-Louis Auriault, Claude Boutin, Christian Geindreau
Pubbl/distr/stampa	London, UK, : ISTE Hoboken, NJ, : J. Wiley, 2009
ISBN	1-282-68632-1 9786612686320 0-470-61203-7 0-470-61044-1
Descrizione fisica	1 online resource (478 p.)
Collana	ISTE ; ; v.149
Altri autori (Persone)	BoutinClaude GeindreauChristian
Disciplina	620.1/1015118 620.11015118
Soggetti	Inhomogeneous materials - Mathematical models Coupled problems (Complex systems) Homogenization (Differential equations)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Homogenization of Coupled Phenomena in Heterogenous Media; Contents; Main notations; Introduction; Part one. Upscaling Methods; Chapter 1. An Introduction to Upscaling Methods; 1.1. Introduction; 1.2. Heat transfer in a periodic bilaminate composite; 1.2.1. Transfer parallel to the layers; 1.2.2. Transfer perpendicular to the layers; 1.2.3. Comments; 1.2.4. Characteristic macroscopic length; 1.3. Bounds on the effective coefficients; 1.3.1. Theorem of virtual powers; 1.3.2. Minima in the complementary power and potential power; 1.3.3. Hill principle; 1.3.4. Voigt and Reuss bounds 1.3.4.1. Upper bound: Voigt1.3.4.2. Lower bound: Reuss; 1.3.5. Comments; 1.3.6. Hashin and Shtrikman's bounds; 1.3.7. Higher-order bounds; 1.4. Self-consistent method; 1.4.1. Boundary-value problem; 1.4.2. Self-consistent hypothesis; 1.4.3. Self-consistent method with simple inclusions; 1.4.3.1. Determination of μ for a homogenous

spherical inclusion; 1.4.3.2. Self-consistent estimate; 1.4.3.3. Implicit morphological constraints; 1.4.4. Comments; Chapter 2. Heterogeneous Medium: Is an Equivalent Macroscopic Description Possible?; 2.1. Introduction
 2.2. Comments on techniques for micro-macro upscaling
 2.2.1. Homogenization techniques for separated length scales; 2.2.2. The ideal homogenization method; 2.3. Statistical modeling; 2.4. Method of multiple scale expansions; 2.4.1. Formulation of multiple scale problems; 2.4.1.1. Homogenizability conditions; 2.4.1.2. Double spatial variable; 2.4.1.3. Stationarity, asymptotic expansions; 2.4.2. Methodology; 2.4.3. Parallels between macroscopic models for materials with periodic and random structures; 2.4.3.1. Periodic materials; 2.4.3.2. Random materials with a REV
 2.4.4. Hill macro-homogeneity and separation of scales
 2.5. Comments on multiple scale methods and statistical methods; 2.5.1. On the periodicity, the stationarity and the concept of the REV; 2.5.2. On the absence of, or need for macroscopic prerequisites; 2.5.3. On the homogenizability and consistency of the macroscopic description; 2.5.4. On the treatment of problems with several small parameters; Chapter 3. Homogenization by Multiple Scale Asymptotic Expansions; 3.1. Introduction; 3.2. Separation of scales: intuitive approach and experimental visualization
 3.2.1. Intuitive approach to the separation of scales
 3.2.2. Experimental visualization of fields with two length scales; 3.2.2.1. Investigation of a flexible net; 3.2.2.2. Photoelastic investigation of a perforated plate; 3.3. One-dimensional example; 3.3.1. Elasto-statics; 3.3.1.1. Equivalent macroscopic description; 3.3.1.2. Comments; 3.3.2. Elasto-dynamics; 3.3.2.1. Macroscopic dynamics: $PI = O(2)$; 3.3.2.2. Steady state: $PI = O(3)$; 3.3.2.3. Non-homogenizable description: $PI = O()$; 3.3.3. Comments on the different possible choices for spatial variables
 3.4. Expressing problems within the formalism of multiple scales

Sommario/riassunto

Both naturally-occurring and man-made materials are often heterogeneous materials formed of various constituents with different properties and behaviours. Studies are usually carried out on volumes of materials that contain a large number of heterogeneities. Describing these media by using appropriate mathematical models to describe each constituent turns out to be an intractable problem. Instead they are generally investigated by using an equivalent macroscopic description - relative to the microscopic heterogeneity scale - which describes the overall behaviour of the media. Fundamental que

2. Record Nr.	UNINA9910791915403321
Autore	Jeffery Laura
Titolo	Chagos islanders in Mauritius and the UK [[electronic resource]] : forced displacement and onward migration / / Laura Jeffery
Pubbl/distr/stampa	Manchester ; ; New York, : Manchester University Press, 2011
ISBN	1-84779-789-X 1-78170-245-4 1-84779-413-0
Descrizione fisica	1 online resource (177 p.)
Collana	New Ethnographies New ethnographies
Disciplina	305.89141
Soggetti	Chagossians - Great Britain - History - 20th century Chagossians - Mauritius - History - 20th century Population transfers - Chagossians British Indian Ocean Territory Emigration and immigration Great Britain Emigration and immigration Mauritius Emigration and immigration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographic references and index.
Nota di contenuto	pt. I. Marginalisation and mobilisation -- pt. II. Narrating homeland, displacement, suffering, and loss -- pt. III. Onward migration.
Sommario/riassunto	The Chagos islanders were forcibly uprooted from the Chagos Archipelago in the Indian Ocean between 1965 and 1973. This is the first book to compare the experiences of displaced Chagos islanders in Mauritius with the experiences of those Chagossians who have moved to the UK since 2002. It thus provides a unique ethnographic comparative study of forced displacement and onward migration within the living memory of one community. Based on in-depth ethnographic fieldwork in Mauritius and Crawley (West Sussex), the six chapters explore Chagossians' challenging lives in Mauritius, the mobilisation of