1.

Record Nr.	UNISA996466394603316
Titolo	Emerging problems in the homogenization of partial differential equations / / Patrizia Donato, Manuel Luna-Laynez, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-62030-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XI, 114 p. 14 illus., 11 illus. in color.)
Collana	SEMA SIMAI Springer Series ; ; Volume 10
Disciplina	515.355
Soggetti	Homogenization (Differential equations)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Nika, G. and Vernescu, B., Micro-geometry effects on the nonlinear effective yield strength response of magnetorheological fluids -- Jerez-Hanckes, C. et al., Multiscale analysis of myelinated axons -- Pérez-Martínez, M., Homogenization for alternating boundary conditions with large reaction terms concentrated in small regions -- G. Fulgencio, R. and Guibé, O., Quasilinear Elliptic Problems in a Two-Component Domain with L^1 data -- Donato, P. et al., Homogenization of an eigenvalue problem in a two-component domain with interfacial jump.
Sommario/riassunto	This book contains some of the results presented at the mini-symposium titled Emerging Problems in the Homogenization of Partial Differential Equations, held during the ICIAM2019 conference in Valencia in July 2019. The papers cover a large range of topics, problems with weak regularity data involving renormalized solutions, eigenvalue problems for complicated shapes of the domain, homogenization of partial differential problems with strongly alternating boundary conditions of Robin type with large parameters, multiscale analysis of the potential action along a neuron with a myelinated axon, and multi-scale model of magnetorheological suspensions. The volume is addressed to scientists who deal with complex systems that presents several elements (characteristics, constituents...) of very different scales, very heterogeneous, and search for homogenized models providing an effective (macroscopic) description of their behaviors. .