

1. Record Nr.	UNINA9910257446203321
Titolo	Homogenization Techniques for Composite Media [[electronic resource]] : Lectures Delivered at the CISM International Center for Mechanical Sciences, Udine, Italy, July 1-5, 1985 / / edited by Enrique Sanchez-Palencia, Andre Zaoui
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1987
ISBN	3-540-47720-9
Edizione	[1st ed. 1987.]
Descrizione fisica	1 online resource (IX, 397 pp.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 272
Disciplina	531
Soggetti	Mechanics Classical Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Homogenization in elasticity -- Models of plates -- Periodic plates -- Macroscopic heat conduction in a fibered body Case of highly conducting fibers at dilute concentration -- to homogenization theory -- Fluids in porous media Darcy's law -- Acoustics in elastic porous media -- Suspension of particles in a viscous fluid -- General introduction to asymptotic methods -- Boundary layers in thermal conduction and elasticity -- Layered plates in traction. Boundary layers -- Singularities in elliptic non smooth problems -- Examples of singularities in thermal conduction and elasticity -- Elastic body with defects distributed near a surface -- Averages, boundary conditions -- Linear problems -- Failure of ductile heterogeneous materials -- Elastic perfectly plastic constituents -- Linear elasticity -- A matrix-inclusion composite -- Closure assumptions -- Variational principles -- Some elementary bounds -- Dynamic problems -- Basic physical data of polycrystal plasticity -- Taylor-type modelling of polycrystal plasticity -- Self-consistent modelling of polycrystal plasticity -- Extended space distribution sensitive self-consistent schemes.