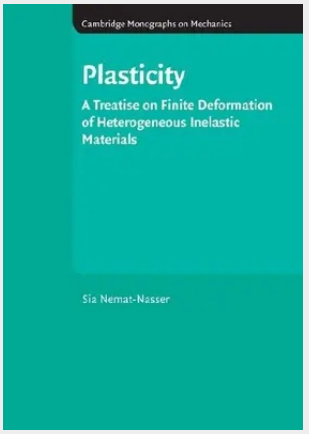
Nemat-Nasser

Plasticity

A Treatise on Finite Deformation of Heterogeneous Inelastic Materials

Providing a basic foundation for advanced graduate study and research in the mechanics of solids, this 2004 treatise contains a systematic development of the fundamentals of finite inelastic deformations of heterogeneous materials. The book combines the mathematical rigour of solid mechanics with the physics-based micro-structural understanding of the material science, to present a coherent picture of finite inelastic deformation of single and polycrystalline metals, over broad ranges of strain rates and temperatures. It also includes a similarly rigourous and experimentally based development of the quasi-static deformation of cohesionless granular materials that support the applied loads through contact friction. Every effort has been made to provide a thorough treatment of the subject, rendering the book accessible to students in solid mechanics and in the mechanics of materials. This book integrates rigourous mathematical description of finite deformations seamlessly with mechanisms based on micromechanics in order to produce useful results with relevance to practical problems.

A basic foundation for advanced graduate study and research in the mechanics of solids.



227,80 €
227,80 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521839792
Medium: Buch
ISBN: 978-0-521-83979-2
Verlag: Cambridge University Press
Erscheinungstermin: 10.08.2011
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2011
Serie: Cambridge Monographs on Mechanics
Produktform: Gebunden
Gewicht: 1598 g
Seiten: 760
Format (B x H): 183 x 260 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)