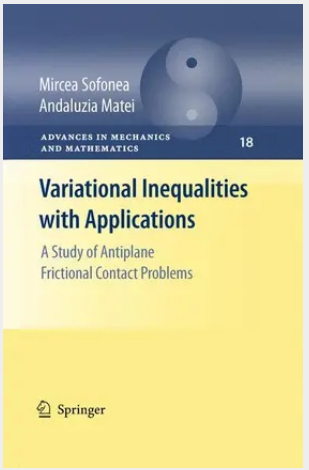
Sofonea / Matei

Variational Inequalities with Applications

A Study of Antiplane Frictional Contact Problems

This book is motivated by stimulating problems in contact mechanics, emphasizing antiplane frictional contact with linearly elastic and viscoelastic materials. It focuses on the essentials with respect to the qualitative aspects of several classes of variational inequalities (VIs). Clearly presented, easy to follow, and well-referenced, this work treats almost entirely VIs of the second kind, with much of the material being state-of-the-art.

Background on Functional Analysis.- Preliminaries.- Function Spaces.- Variational Inequalities.- Elliptic Variational Inequalities.- Evolutionary Variational Inequalities with Viscosity.- Evolutionary Variational Inequalities.- Volterra-type Variational Inequalities.- Background on Contact Mechanics.- Modeling of Contact Processes.- Antiplane Shear.- Antiplane Frictional Contact Problems.- Elastic Problems.- Viscoelastic Problems with Short Memory.- Viscoelastic Problems with Long Memory.



106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780387874593
Medium: Buch
ISBN: 978-0-387-87459-3
Verlag: Springer
Erscheinungstermin: 27.02.2009
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2009
Serie: Advances in Mechanics and Mathematics
Produktform: Gebunden
Gewicht: 495 g
Seiten: 230
Format (B x H): 160 x 241 mm

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