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Stuart S. Antman

Nonlinear Problems of Elasticity

Second Edition



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Stuart Antman

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comprehensive exposition of a technically difficult yet rapidly developing area of modern applied mathematics. The book includes the classical existence theory as well as a brief incursion into problems where nonexistence is fundamental. It also provides self-contained concise accounts of quasi-convexity, polyconvexity and rank-one convexity which are used in nonlinear elasticity. Pedregal introduces the reader to Young measures as an important tool in solving vector variational techniques. Readers are encouraged to pursue nonlinear elasticity as one of the best means to apply these techniques. Although there are other books devoted to nonlinear elasticity or variational methods, none are concerned with Young measures as a tool for proving existence results in nonlinear elasticity. **Nonlinear Elasticity** R. W. Dickey, 2014-05-10. Nonlinear Elasticity presents a description of research and results on various nonlinear problems arising in elasticity. This book covers a variety of topics including shallow elastic membranes, nonlinear elasticity, finite deformations of elastic solids and nonlinear thermoelasticity. Organized into 11 chapters, this book begins with an overview of the nonlinear theory of buckling of elastic shells. This text then examines the ways in which the energy criterion supplies a necessary condition for asymptotic stability. Other chapters consider some of the phenomena both physical and mathematical that typify the large deformation of a nonlinearly elastic body. This book discusses as well the concepts leading to a criterion for instabilities and discusses how the criterion applies to some well-known ideal materials. The final chapter deals with the structure of strong shocks and studies the evolution of such a shock produced by a suddenly applied strain. This book is a valuable resource for mathematicians.

Problems of Non-linear Elasticity Clifford Truesdell, **Contact Problems in Elasticity** N. Kikuchi, J. T. Oden, 1988-01-01. The contact of one deformable body with another lies at the heart of almost every mechanical structure. Here in a comprehensive treatment, two of the field's leading researchers present a systematic approach to contact problems. Using variational formulations, Kikuchi and Oden derive a multitude of new results both for classical problems and for nonlinear problems involving large deflections and buckling of thin plates with unilateral supports, dry friction with nonclassical laws, large elastic and elastoplastic deformations with frictional contact, dynamic contacts with dynamic frictional effects and rolling contacts. This method exposes properties of solutions obscured by classical methods and it provides a basis for the development of powerful numerical schemes. Among the novel results presented here are algorithms for contact problems with nonlinear and nonlocal friction and very effective algorithms for solving problems involving the large elastic deformation of hyperelastic bodies with general contact conditions. Includes detailed discussion of numerical methods for nonlinear materials with unilateral contact and friction, with examples of metal-forming simulations. Also presents algorithms for the finite deformation rolling contact problem along with a discussion of numerical examples. **Problems of Nonlinear Elasticity** Clifford Truesdell, 1987. **Nonlinear Problems of Elasticity** Stuart Antman, 2005-09-14. Enlarged, updated and extensively revised, this second edition illuminates specific problems of nonlinear elasticity, emphasizing the role of nonlinear material response. Opening chapters discuss strings, rods, and shells, and applications of bifurcation theory and the calculus of

variations to problems for these bodies Subsequent chapters cover tensors three dimensional continuum mechanics three dimensional elasticity general theories of rods and shells and dynamical problems Each chapter includes interesting challenging and tractable exercises The Regularity of Solutions for Some Nonlinear Problems of the Elasticity Theory in the Domains with Boundary Conic Points Sergej I. Čelkak,Aleksandr I. Košelev,1999 Stability Problems in Nonlinear Elasticity P. J. Davies,University of Heriot-Watt,1987 **Journal of Applied Mechanics** ,1983 Applied Mechanics Reviews ,1978 Nonconforming Methods for Nonlinear Elasticity Problems Bernd Flemisch,Barbara Wohlmuth,2005 Mathematical Reviews ,1998 Vestnik, St. Petersburg University ,2008 **Higher Order Variational Problems and Phase Transitions in Nonlinear Elasticity** Irene Fonseca,Giovanni Leoni,2001 Abstract Higher order variational problems ask for new techniques which do not reduce to mere generalizations of their counterparts for first order problems These challenges will be illustrated within the context of phase transitions for nonlinear elastic materials and of higher order lower semicontinuity results recently obtained

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