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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 result 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

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