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Applied Mechanics

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Yavuz Başar Dieter Weichert

Nonlinear Continuum Mechanics of Solids

Fundamental mathematical and physical concepts



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Nonlinear Continuum Mechanics Of Solids

Paul Steinmann

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Nonlinear Solid Mechanics Davide Bigoni,2012-07-30 Addresses behaviour of materials under extreme mechanical conditions and of failure in terms of non linear continuum mechanics and instability theory
Linear and Non-linear Continuum Solid Mechanics Santiago Hernández,Arturo N. Fontan,2021-06-28 Deformable solids that is to say those which undergo changes in geometry when subjected to external loads or other types of solicitations as well as other related topics are the focus of this book Within the main field this text deals with advanced linear elasticity and plasticity approaches and the behavioural study of more complex types of materials This includes composites of more recent manufacture and others whose material characterisation has only recently been possible It also describes how linear elastic behaviour extends to anisotropic materials in general and how deformations can result in small or large strain components The information on plastic behaviour expands to include strain

hardening of the materials Amongst other new topics incorporated into this volume are studies of hyperelastic materials which can represent elastomeric and some types of biological materials A section of the book deals with viscoelastic materials i e those who deform when subjected to long term loads The behaviour of viscoplasticity as well as elasto viscoplasticity describes well other types of materials including those present in many geotechnical sites. The objective of this volume is to present material that can be used for teaching continuum mechanics to students of mechanical civil or aeronautical engineering In order to understand the contents the reader only needs to know linear algebra and differential calculus Examples have been included throughout the text and at the end of each chapter exercises are presented which can be used to check on comprehension of the theoretical information presented Finite Elasticity And Viscoelasticity: A Course In The Nonlinear Mechanics Of Solids Aleksey Drozdov, 1996-01-11 This book provides a systematic and self consistent introduction to the nonlinear continuum mechanics of solids from the main axioms to comprehensive aspects of the theory The objective is to expose the most intriguing aspects of elasticity and viscoelasticity with finite strains in such a way as to ensure mathematical correctness on the one hand and to demonstrate a wide spectrum of physical phenomena typical only of nonlinear mechanics on the other A novel aspect of the book is that it contains a number of examples illustrating surprising behaviour in materials with finite strains as well as comparisons between theoretical predictions and experimental data for rubber like polymers and elastomers. The book aims to fill a gap between mathematicians specializing in nonlinear continuum mechanics and physicists and engineers who apply the methods of solid mechanics to a wide range of problems in civil and mechanical engineering materials science and polymer physics. The book has been developed from a graduate course in applied mathematics which the author has given for a number of years Nonlinear Solid Mechanics for Finite Element Analysis: Dynamics Javier Bonet, Antonio J. Gil, Richard D. Wood, 2021-03-18 The perfect introduction to the theory and computer programming for the dynamic simulation of nonlinear solid mechanics Nonlinear Solid Mechanics for Finite Element Analysis: Statics Javier Bonet, Antonio J. Gil, Richard D. Wood, 2016-06-23 A clear and complete postgraduate introduction to the theory and computer programming for the complex simulation of material behavior

Spatial and Material Forces in Nonlinear Continuum Mechanics Paul Steinmann,2022-03-28 This monograph details spatial and material vistas on non linear continuum mechanics in a dissipation consistent approach Thereby the spatial vista renders the common approach to nonlinear continuum mechanics and corresponding spatial forces whereas the material vista elaborates on configurational mechanics and corresponding material or rather configurational forces Fundamental to configurational mechanics is the concept of force In analytical mechanics force is a derived object that is power conjugate to changes of generalised coordinates For a continuum body these are typically the spatial positions of its continuum points However if in agreement with the second law continuum points e g on the boundary may also change their material positions Configurational forces are then power conjugate to these configurational changes A paradigm is a crack tip i e a singular part

of the boundary changing its position during crack propagation with the related configurational force typically the J integral driving its evolution thereby consuming power typically expressed as the energy release rate Taken together configurational mechanics is an unconventional branch of continuum physics rationalising and unifying the tendency of a continuum body to change its material configuration It is thus the ideal formulation to tackle sophisticated problems in continuum defect mechanics Configurational mechanics is entirely free of restrictions regarding geometrical and constitutive nonlinearities and offers an accompanying versatile computational approach to continuum defect mechanics In this monograph I present a detailed summary account of my approach towards configurational mechanics thereby fostering my view that configurational forces are indeed dissipation consistent to configurational changes

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