



CISM COURSES AND LECTURES NO. 343
INTERNATIONAL CENTRE FOR MECHANICAL SCIENCES

NONLINEAR WAVES IN SOLIDS

EDITED BY

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JG Myers



Nonlinear Waves In Solids Cism Courses And Lectures No 341:

Nonlinear Waves in Solids A. Jeffrey, J. Engelbrecht, 2014-05-04 Travelling wave processes and wave motion are of great importance in many areas of mechanics and nonlinearity also plays a decisive role there The basic mathematical models in this area involve nonlinear partial differential equations and predictability of behaviour of wave phenomena is of great importance Beside fluid dynamics and gas dynamics which have long been the traditional nonlinear sciences solid mechanics is now taking an ever increasing account of nonlinear effects Apart from plasticity and fracture mechanics nonlinear elastic waves have been shown to be of great importance in many areas such as the study of impact nondestructive testing and seismology These lectures offer a thorough account of the fundamental theory of nonlinear deformation waves and in the process offer an up to date account of the current state of research in the theory and practice of nonlinear waves in solids

Applied Mechanics Reviews ,1987 A Journey into the Nonlinear World Jüri Engelbrecht,2024-07-30 This is a personal story about being involved in the study of nonlinear phenomena for more than half a century The focus is on the development of ideas and the resulting knowledge This is the visible part of research but much is usually hidden The author describes how the ideas were generated and how an invisible college of friends and colleagues has emerged The presentation is spiced by thoughts about the beauty of science and philosophical considerations on the complex world where nonlinear interactions play an important role The book is in some sense a biography but not so much about the personal life of the author it is about science and its actors Based on the author s experience in many European research centres and science policy institutions it reflects on the development of knowledge in nonlinear dynamics as well as science policy actions over the second half of the 20th century and the first quarter of the 21st century Graduates and postgraduates interested in the progress of research will find the book particularly engaging **Mathematical Reviews** ,1995 **Illustrated Official**

Journal (patents) Great Britain. Patent Office,1995 特許庁,1997 **Kokuritsu Kokkai Toshokan shozō kagaku gijutsu kankei Ōbun kaigiroku mokuroku** Kokuritsu Kokkai Toshokan (Japan),1997 国立科学技術文献館 国立科学技術文献館 (Japan),1997 **Acoustical Physics** ,1996 Russian academic journal in the field of acoustics The journal publishes scientific reviews original papers short communications letters to the editor and current events It covers

theoretical and experimental aspects of physical technical and biological acoustics This journal presents results of research conducted at the institutes of the Russian Academy of Sciences and at universities and research establishments in Russia and abroad

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Waves in Nonlinear Pre-Stressed Materials M. Destrade, G. Saccomandi, 2007-11-08 The papers in this book provide a

unique state of the art multidisciplinary overview on the subject of waves in pre stressed materials through the interaction of several topics ranging from the mathematical modelling of incremental material response elastic and inelastic to the analysis of the governing differential equations and boundary value problems and to computational methods for the solution to these problems with particular reference to industrial geophysical and biomechanical applications A complete view on the title subject is proposed including The basic and fundamental theoretical issues mechanical modelling exact solutions asymptotic methods numerical treatment A unified introduction to wave propagation small on large and large on large A look toward classical such as geophysics and the mechanics of rubber like solids and emergent such as biomechanics applications

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