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Finite Amplitude Waves in Nonlinear Elastodynamics and

November 4th, 2018 - This Chapter presents a personal survey of some basic results about finite amplitude waves in nonlinear elasticity and related theories For isotropic materials general classes of solutions for the basic equations of wave propagation are obtained by reducing the equations of motion to a system of

Waves in nonlinear elastic media with inhomogeneous pre

October 14th, 2018 - Four main problems are considered 1 torsional wave propagation in a pre stressed annular cylinder 2 the scattering of horizontally polarised shear waves from a cylindrical cavity in a pre stressed infinite nonlinear elastic material 3 the use of pre stress to cloak cylindrical cavities from incoming horizontally polarised shear waves and 4 the scattering of shear waves from a spherical cavity in a pre stressed infinite nonlinear elastic material

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Effective wave propagation in a prestressed nonlinear

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Some qualitative properties for the equations of pre

June 9th, 2016 - In this paper we face the question of describing the incremental motion of pre stressed isotropic homogeneous compressible viscoelastic materials of differential type

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October 27th, 2018 - Nonlinear Optics Third Edition Robert W Boyd The Institute of Optics University of Rochester Rochester New York USA Preface to the First Edition xvii 1 The Nonlinear Optical Susceptibility 1 1 Introduction to Nonlinear Optics 1 Two Beam Coupling in Photorefractive Materials 528 11 7 Four Wave Mixing in Photorefractive Materials

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The nonlinear evolution of near neutral and near body wave

October 26th, 2018 - INTRODUCTION In a previous paper 1 we have studied the propagation of nonlinear surface waves in a pre stressed elastic half space An efficient virtual work method was proposed for deriving evolution equations for nordinear surface waves propagating in a generally pre stressed elastic half space

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September 16th, 2008 - Abstract Nonlinear torsional waves propagating along an infinite transversely isotropic cylinder are considered The hyperelasticity of the cylinder is described by Guz's generalization of the Murnaghan potential to quasi isotropic materials

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Quadratically Nonlinear Cylindrical Hyperelastic Waves

July 29th, 2004 - The second order analytical solution of the nonlinear wave equation is similar to that for a plane longitudinal wave and is the sum of the first and second harmonics with the difference that the amplitudes of cylindrical harmonics decrease with the distance traveled by the wave

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