

non linear wave propagation pdf

Lectures on Wave Propagation By G.B. Whitham Tata Institute of Fundamental Research Bombay 1979.
Lectures on Wave Propagation By G. B. Whitham Published for the Tata Institute of Fundamental Research,
Bombay ... The simplest non-linear wave equation is a counterpart of this, namely: (1.5)

Lectures on Wave Propagation - www.math.tifr.res.in

Linear wave propagation in LHM or NRM is characterized by negative refraction and negative group velocity that could be clearly manifested by ultra-short pulse propagation in such a medium. Nonlinear optical effects in LHM can be predicted from the same calculations adopted for ordinary media using our general approach.

Linear and nonlinear wave propagation in negative

WAVE PROPAGATION IN NONLINEAR PERIODIC STRUCTURES A Dissertation Presented to The
Academic Faculty by Raj K. Narisetti In Partial Fulfillment of the Requirements for the Degree Doctor of
Philosophy in the School of Aerospace Engineering Georgia Institute of Technology

WAVE PROPAGATION IN NONLINEAR - smartech.gatech.edu

Non-linear wave propagation/transient dynamics in lattice structures is modeled using a technique which combines the Laplace transform and the Finite element method. The first step in the technique is to apply the Laplace transform to the

Non-linear analysis of wave propagation using transform

wave propagation in a single direction, the x direction. Combining (1)-(5) and keeping terms to second order in the displacement field, the equations of motion for

Theoretical study of nonlinear elastic wave propagation

-5- Introduction The study of non-linear wave propagation in liquid-filled visco-elastic tubes is often motivated by its application to the arterial blood flow.

Model studies of non-linear wave propagation in liquid

THE UNIVERSITY OF MICHIGAN ANN ARBOR, MICHIGAN NONLINEAR ELECTROMAGNETIC WAVE
PROPAGATION IN A MAGNETOACTIVE FINITE TEMPERATURE PLASMA 1 Technical Report No. 94
Electron Physics Laboratory Department of Electrical Engineering

NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION IN A

nonlinear dynamics of wave propagation in the heart with an emphasis on the theory of pulses, spirals and scroll waves and their instabilities in excitable media with applications to cardiac modeling.

Nonlinear physics of electrical wave propagation in the

nonlinear ultrasonic wave propagation in both the strongly nonlinear regime, where shocks develop, and the weakly nonlinear regime, where the acoustic attenuation prevents the formation of pressure discontinuities.

NUMERICAL METHODS FOR NONLINEAR WAVE PROPAGATION IN ULTRASOUND

the nonlinear process via four wave mixing (FWM). If we look at the phase of the pulse during propagation due to self-phase modulation, see Fig. 3.2 (a), we find, that the pulse redistributes its energy, such that the

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