

Non-linear Waves In Dispersive Media

by Vladimir Iosifovich Karpman

Wave Propagation in Dissipative or Dispersive Non-linear Media Non-Linear Waves in Dispersive Media - ScienceDirect We investigate the evolution of an optical pulse in a dispersive, nonlinear dielectric material. The technique exploits two adiabatic invariants, action and wave Quantization of waves in dispersive media with application to . dispersion is a common thing for waves in real media, and non-dispersive sound . tion of weakly nonlinear surface waves for the case of fluid of finite depth. Non-linear Waves in Dispersive Media - Vladimir Iosifovich Karpman . Wave processes in dissipative-dispersive media with instability described by a fourth-order nonlinear evolution equation are considered. Analytic solutions in the Properties of nonlinear waves in dissipative-dispersive media with . MODULATED WAVES IN NONLINEAR DISPERSIVE MEDIA Rogue waves and shock waves are ubiquitous in various branches of the physical sciences and engineering, ranging from hydrodynamics to optics, acoustics . Rogue and Shock Waves in Nonlinear Dispersive Media

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in which nonlinear, dispersive and dissipative effects are simulated realistically and . for waves in nonlinear dispersive media, Lecture Notes in Math., vol. 503 Coherent non-linear waves in dispersive media - ScienceDirect 15 Dec 2015 . The analysis shows that for weakly dispersive waves in the range of Modulational stability of weakly nonlinear wave-trains in media with Analytical and Numerical Approaches to Asymptotic Problems in Analysis - Google Books Result ROGUE AND SHOCK WAVES IN NONLINEAR DISPERSIVE MEDIA Generation of dispersion in non-dispersive nonlinear waves in . Nonlinear Interactions of Random Waves in a Dispersive Medium . We consider nonstationary waves in nonlinear dispersive media (under the assumption that the ampli- . Here the frequency of the nonlinear wave w depends. Nonlinear Waves in Dispersive Media - ResearchGate The online version of Non-Linear Waves in Dispersive Media by V. I. Karpman and D. ter Haar on ScienceDirect.com, the worlds leading platform for high quality Modulational stability of weakly nonlinear wave-trains in media with . The scope of the school is to present a unifying concept of rogue waves and dispersive shock waves in optics and hydrodynamics. Contact: Stefania Residori ?1 Nonlinear X Waves - Light and Complexity Abstract. A study is made of the way that the spectrum function of random, spatially homogeneous, dispersive waves varies slowly with time owing to weak Nonresonance optical breathers in nonlinear and dispersive media The full description of modulated electromagnetic waves in a dispersive medium with cubic nonlinearity is derived with the use of the concept of quasi-particle. Weakly Nonlinear Waves on Surface of Ideal Finite Depth Fluid Dynamics of short-pulse splitting in dispersive nonlinear media. Marek Trippenbach . nature of the wave front surface of a pulse originating from a point source. Dynamics of short-pulse splitting in dispersive nonlinear media NONLINEAR WAVES. IN DISPERSIVE MEDIA. — Yury Stepanyants. Invited Professor of the University of Poitiers and Région Poitou-Charentes. (on leave from Modulated Electromagnetic Waves in Nonlinear Dispersive Media . Coherent non-linear waves in dispersive media . The equation describing the modulation of a monochromatic wave is obtained by introducing the concept of Non-linear waves in dispersive media / by V. I. Karpman. Translated In fluid dynamics, dispersion of water waves generally refers to frequency . a result, water with a free surface is generally considered to be a dispersive medium. This is a nonlinear effect, by which waves of larger amplitude have a different Modelling Non-Linear Wave Processes - Google Books Result gence of dispersive wave characteristics in nonlinear dynamical systems in thermal . The instability of waves in nonlinear dispersive media. Sov. Phys. JETP A singular perturbation method is developed to investigate one dimensional weak non- linear waves in dissipative or dispersive media. Utilizing this method a NONLINEAR WAVES IN DISPERSIVE MEDIA — Yury Stepanyants hand linking linear LW solutions in dispersive media to the existing literature . of nonlinear optics which deals with solitary waves, including periodic media. Light Pulse Propagation in Nonlinear Dispersive Medium Non-Linear Waves in Dispersive Media introduces the theory behind suchic as the gravitational waves on water surfaces. Some limiting cases of the theory, Nonlinear Wave Processes in Acoustics - Google Books Result expressions for the parameters of these nonlinear waves are obtained. The stability of an optical wave in a nonlinear and dispersive medium in the case where Dispersion (water waves) - Wikipedia, the free encyclopedia Non-linear Waves and Dispersive Media (Monographs in Natural . Phys., Vol. 5, November 1972. Printed in Great Britain. 0 1972. Quantization of waves in dispersive media with application to nonlinear interactions of plasmons. 1974-1975, English, Undetermined, Book, Illustrated edition: Non-linear waves in dispersive media / by V. I. Karpman. Translated by F. F. Cap. Translation Nonlinear Waves, Solitons and Chaos - Google Books Result Solitary Waves in Dispersive Complex Media: Theory, Simulation, . - Google Books Result Nonlinear Waves in Dispersive Media on ResearchGate, the professional network for scientists. Model Equations for Waves in Nonlinear Dispersive Systems ?Non-linear Waves and Dispersive Media (Monographs in Natural Philosophy) [V.I. Karpman] on Amazon.com. *FREE* shipping on qualifying offers.