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Abstract. A general theory is developed for studying changes of a wave train governed by non-linear partial differential equations. The technique is to average over the local oscillations in the medium and so obtain differential equations for the variations in amplitude, wave number, etc. It corresponds to the Krylov-Bogoliubov averaging technique for the ordinary differential equations of non-linear vibrations.

Non-linear dispersive waves |  
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Non-Linear Waves in Dispersive  
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The field of nonlinear dispersive  
waves has developed enormously  
since the work of Stokes,  
Boussinesq and Korteweg – de  
Vries (KdV) in the nineteenth  
century. In the 1960s, researchers  
developed effective asymptotic  
methods for deriving nonlinear  
wave equations, such as the KdV  
equation, governing a broad class

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of physical phenomena that admit special solutions including those commonly known as solitons.

Nonlinear Dispersive Waves by  
Mark J. Ablowitz

at the NSF-CBMS regional conference on nonlinear and dispersive wave equations at New Mexico State University, held in June 2005. Its objective is to present some aspects of the global existence theory (and in particular, the regularity and scattering theory) for various nonlinear dispersive and wave equations, such as the

Nonlinear dispersive equations:  
local and global analysis

For non-linear systems without frequency dispersion, e.g. acoustic



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systems, a different, but also well-known, modification of the waveform occurs. It may be called “amplitude dispersion”, in that different values of an amplitude variable like the pressure are propagated at different speeds.

Contributions to the Theory of  
Waves in Non-linear ...

Nonlinear wave equation solutions. A non-exhaustive selection of well known 1D nonlinear wave equations and their closed-form solutions is given below. The closed form solutions are given by way of example only, as nonlinear wave equations often have many possible solutions. Hopf equation (inviscid Burgers equation):

$$(u_t + uu_x = 0)$$

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In fluid dynamics, dispersion of water waves generally refers to frequency dispersion, which means that waves of different wavelengths travel at different phase speeds. Water waves, in this context, are waves propagating on the water surface, with gravity and surface tension as the restoring forces. As a result, water with a free surface is generally considered to be a dispersive medium. For a certain water depth, surface gravity waves – i.e. waves occurring at the air – water interface ...

Dispersion (water waves) -  
Wikipedia

In mathematics and physics, a

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soliton or solitary wave is a self-reinforcing wave packet that maintains its shape while it propagates at a constant velocity. Solitons are caused by a cancellation of nonlinear and dispersive effects in the medium. (Dispersive effects are a property of certain systems where the speed of a wave depends on its frequency.)

Soliton - Wikipedia

Mathematics, Physics, Hyperbolic Waves, Shock Waves, Gas Dynamics, The Wave Equation, Dispersive Waves, Water Waves Collection

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As time evolves in a linear  
dispersive system, each Fourier  
component propagates at its own  
phase velocity and thus, a group of  
waves of mixed  $k$  disperses.

Meanwhile, the effect of non-  
linearities becomes important,  
typically leading to three possible  
scenarios depending

Lecture 3: Introduction to Non-  
Linear Waves

Non-Linear Waves in Dispersive  
Media introduces the theory  
behind such topic as the

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gravitational waves on water surfaces. Some limiting cases of the theory, wherein proof of an asymptotic class is necessary and generated, are also provided. The first section of the book discusses the notion of linear approximation.

Non-linear waves in dispersive media (eBook, 1974 ...

Dispersive hydrodynamics has emerged as a unified mathematical framework for the description of multiscale nonlinear wave phenomena in dispersive media, encompassing both dynamic and stochastic aspects of wave propagation.

Dispersive hydrodynamics:  
mathematics, simulation and ...

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Mathematics) by Mark J. Ablowitz  
(ISBN: 9781107012547) from  
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Now in an accessible paperback  
edition, this classic work is just as  
relevant as when it first appeared  
in 1974, due to the increased use  
of nonlinear waves. It covers the  
behavior of waves in two parts,  
with the first part addressing  
hyperbolic waves and the second  
addressing dispersive waves. The  
mathematical principles are  
presented along with examples of  
specific cases in communications  
and specific physical fields,

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