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## **Non Linear Waves In Dispersive**

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

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section of the book discusses the notion  
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Abstract. A general theory is developed  
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governed by non-linear partial  
differential equations. The technique is

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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.



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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

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some aspects of the global existence  
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and scattering theory) for various  
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equations, such as the

## **Nonlinear dispersive equations: local and global analysis**

In non-linear problems of dispersive

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waves, solutions taking the form of an infinitely long, periodic wave train are well known. The so-called Stokes waves (Stokes 1847) and cnoidal waves (Korteweg & de Vries 1895) are early examples in the theory of water waves. Recently many similar examples have been found in t, plasma waves.

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### **A general approach to linear and non-linear dispersive ...**

nonlinear term requires a formal study of the original equations, which will be done in the following lectures. For the moment, it is sufficient to say that a term of the form  $\mu u u_x$  suitably balances the dispersive term, hence introducing  $u_t + c_0 u_x + \mu u u_x + \beta u_{xxx} = 0$ , (9) which

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is the KdV equation. We can simplify the  
equation by performing the transform

## **Lecture 3: Introduction to Non- Linear Waves**

In mathematics and physics, a soliton or solitary wave is a self-reinforcing wave packet that maintains its shape while it propagates at a constant velocity.

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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**

Besides frequency dispersion, water

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waves also exhibit amplitude dispersion. This is a nonlinear effect, by which waves of larger amplitude have a different phase speed from small-amplitude waves.

## **Dispersion (water waves) - Wikipedia**

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## **Linear and nonlinear waves - Scholarpedia**

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book discusses the notion of linear approximation.

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

I'm currently trying to solve numerically the following nonlinear (dispersion) relation (i.e. wave frequency  $f$  or pulsation  $\omega$ , as a function of wave

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number  $k_B$ ) with 8 fixed parameters:  
that should have 3 solutions (red, light  
blue and orange curves), according to  
the following plot:

## **solve numerically a nonlinear (plasma wave dispersion ...**

Local and global well-posedness for non-linear dispersive and wave equations.

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**Well-posedness for non-linear  
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media (Book, 1975 ...**

Here  $x$  is L. Ahdelouhah et al. /Nonlocal models for nonlinear, dispersive waves proportional to the distance in the direction of propagation,  $t$  is proportional to the elapsed time, and the wavenumber  $\sim$  and frequency  $w$  are

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**Nonlocal models for nonlinear,  
dispersive waves ...**

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,

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researchers developed effective asymptotic methods for deriving nonlinear wave equations, such as the KdV equation, governing a broad class of physical phenomena that admit special solutions including those commonly known as solitons.

## **Nonlinear Dispersive Waves:**

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## **Asymptotic Analysis and ...**

Among nonlinear PDEs, dispersive and wave equations form an important class of equations. These include the nonlinear Schrödinger equation, the nonlinear wave equation, the Korteweg de Vries equation, and the wave maps equation. This book is an introduction to the methods and results used in the

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