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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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since the work of Stokes,

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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  
of physical phenomena that admit

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at the NSF-CBMS regional  
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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

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Nonlinear dispersive equations:  
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For non-linear systems without  
frequency dispersion, e.g. acoustic  
systems, a different, but also well-  
known, modification of the  
waveform occurs. It may be called

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“amplitude dispersion”, in that different values of an amplitude variable like the pressure are propagated at different speeds.

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(inviscid Burgers equation):  
 $\partial_t u + u \partial_x u = 0$   
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Scholarpedia

In fluid dynamics, dispersion of water waves generally refers to frequency dispersion, which means

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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

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considered to be a dispersive  
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surface gravity waves – i.e. waves  
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Dispersion (water waves) -  
Wikipedia

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(Dispersive effects are a property of certain systems where the speed of a wave depends on its frequency.)

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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



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