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John Scott Russell describes his discovery of the soliton in 1834 on the Union Canal, Scotland.

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(iii) to extend the students' experience of wave phenomena to include shock waves and solitons [A1, A4]; (iv) to introduce a range of Mathematical concepts peculiar to nonlinear equations, such as Baacklund transformations, nonlinear superposition and coherence [A4, A5]. Students completing the module will be able to:

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## of nonlinear waves In Synergetics

*Nonlinear Waves, Solitons and Chaos by Eryk Infeld*

Solitons are nonlinear waves. As a preliminary definition, a soliton is considered as solitary, traveling wave pulse solution of nonlinear partial differential equation (PDE). The nonlinearity will play a significant role. For most dispersive evolution equations these solitary waves would scatter inelastically and lose 'energy' due to the radiation.

*Nonlinear waves: Solitons - TU Chemnitz*

Guillaume James (Toulouse, France): Wave propagation in chains of beads with Hertzian contacts and the discrete p-Schrodinger equation. Perturbative methods like modulation

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Equations and local continuation techniques have been used to describe important classes of waves in nonlinear lattices, like solitons, nonlinear normal modes and breathers.

## *Nonlinear Waves and Solitons in Lattices*

Abstract. A discussion of the theory and applications of classical solitons is presented with a brief treatment of quantum mechanical effects which occur in particle physics and quantum field theory. The subjects addressed include: solitary waves and solitons, scattering transforms, the Schroedinger equation and the Korteweg-de Vries equation, and the inverse method for the isospectral Schroedinger equation and the general solution of the solvable nonlinear equations.

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*Solitons and nonlinear wave equations (Book) | OSTI.GOV*

In physics, researchers have observed solitary waves and solitons not only in water waves and nonlinear optics but also in plasmas, electrical circuits, and Bose-Einstein condensates. These...

*Solitons and topological waves | Science*

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. Solitons are caused by a cancellation of nonlinear and dispersive effects in the medium. Solitons are the solutions of a widespread class of weakly nonlinear dispersive partial differential equations



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describing physical systems. The soliton phenomenon was first described in 1834 by John Scott Russell who observed a solitary wave in the Unio

## *Soliton - Wikipedia*

From a mathematical perspective, continuous nonlinear Schrödinger (NLS) equations are among the hallmark models in nonlinear optics, as they describe dispersive envelope waves (via solitary-wave solutions of the NLS) of the electric field in optical bers, and discrete NLS (DNLS) equations can be used to describe the dynamics of pulses in, e.g., optical waveguide arrays and photorefractive crystals.

## *Soliton - Scholarpedia*

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In optics, the term soliton is used to refer to any optical field that does not change during propagation because of a delicate balance between nonlinear and linear effects in the medium. There are two main kinds of solitons: spatial solitons: the nonlinear effect can balance the diffraction. The electromagnetic field can change the refractive index of the medium while propagating, thus creating a structure similar to a graded-index fiber. If the field is also a propagating mode of the guide it

*Soliton (optics) - Wikipedia*

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We investigate the nonisospectral effects of a semi-discrete nonlinear Schrödinger equation, which is a direct integrable discretisation of its continuous counterpart. Bilinear form and double Casoratian solution of the equation are presented. Dynamics of solutions are analyzed. Both solitons and multiple pole solutions admit space-time localized rogue wave behavior.

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Solitons are quasiparticles propagated by a traveling wave.

Unlike waves such as those produced in water, solitons are neither followed nor preceded by other such waves—they also hold their ...

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