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In mathematics and physics, a nonlinear partial differential equation is a partial differential equation with nonlinear terms. They describe many different physical systems, ranging from gravitation to fluid dynamics, and

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have been used in mathematics to solve problems such as the Poincaré conjecture and the Calabi conjecture. They are difficult to study: there are almost no general techniques that work for all such equations, and usually each individual equation has to be studied as a separate

Nonlinear partial differential equation - Wikipedia

Nonlinear Schrödinger

(derivative) $1 + 1 i \partial_t \psi = - 1 2 \partial_x^2 \psi + \kappa |\psi|^2 \psi$

$\partial_t \psi = - \frac{1}{2} \partial_x^2 \psi + \kappa |\psi|^2 \psi$

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List of nonlinear partial

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The Navier-Stokes equations are nonlinear partial differential equations in the general case and so remain in almost every real situation [18] [19] In some cases, such as one-dimensional flow and Stokes flow (or creeping flow), the equations can be simplified to linear equations.

Navier-Stokes equations -
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If $k > 1$ one speaks, as a rule, of a vectorial non-linear partial differential equation or of a system of non-linear partial differential equations. The order of (1) is defined as the highest order of a derivative occurring in the equation. One of the best known non-linear equations is the Monge-Ampère equation.

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the structure of linear and

nonlinear partial differential

equations for generating

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Lax pairs, recursion operators, Bäcklund transform and finally finding exact analytic solutions to the PDE.

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List of nonlinear ordinary differential equations - Wikipedia
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Nonlinear Differential Equations and Applications NoDEA

In case of partial differential equations, most of the equations have no general solution.

Therefore, each equation has to be treated independently. Navier-Stokes equation and Euler's equation in fluid dynamics, Einstein's field equations of general relativity are well known

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Difference Between Linear and Nonlinear Differential Equations Introduction. The description of many interesting phenomena in science and engineering leads to infinite-dimensional minimization or evolution problems that define nonlinear partial differential equations. While the development and analysis of numerical methods for linear partial differential equations is nearly complete, only few results are available in the case of nonlinear equations.

Numerical Methods for Nonlinear Partial Differential Equations
For instance, the nonlinear

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operator $h_n + \Delta t N \times \lambda h_n = h_n + \Delta t (\lambda_1 h_n h_{x,n} - \lambda_2 h_{x,x} h_n)$, involved in the Burgers' equation can be approximated by the linear operator $L \times \lambda h_n = h_n + \Delta t (\lambda_1 h_n - 1 h_{x,n} - \lambda_2 h_{x,x} h_n)$, where $h_n - 1(x)$ is the state of the system at the previous time $t_n - 1$. 3.

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In this thesis we study the regularity of solutions for generalizations of the parabolic p-Laplace equation. The main focus is on equations with Orlicz type growth conditions for which we prove various regularity results, such as local boundedness of both weak solutions and their gradients.

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