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Mathematics (1987). Linear Algebra and
Its Applications, 2nd ed., Wiley-

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Interscience, New York (2007).

Mathematical Aspects of Production and
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Differential Equations > Second-Order
Hyperbolic Partial Differential Equations

2. Nonlinear Hyperbolic Equations 2.1.

Nonlinear Wave Equations of the Form

$$\frac{\partial^2 w}{\partial t^2} = a \frac{\partial^2 w}{\partial x^2} + f(w).1. \frac{\partial^2 w}{\partial t^2}$$

$$= \frac{\partial^2 w}{\partial x^2} + a w + b w^n.$$

Klein-Gordon equation with a power-law
nonlinearity. ..2. $\frac{\partial^2 w}{\partial t^2}$

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Hyperbolic Partial Differential Equations
and Geometric Optics
Development of Singularities of Solutions
of Nonlinear Hyperbolic Partial
Differential Equations Chapter in
Journal of Mathematical Physics
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New Hyperbolic Function Solutions for
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Equation Arising in Mathematical
Physics Haci Mehmet Baskonus 1,* and
Hasan Bulut 2 1 Department of

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Hyperbolic Partial Differential Equations

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In mathematics, a hyperbolic partial differential equation of order n is a partial differential equation (PDE) that, roughly speaking, has a well-posed initial value problem for the first n derivatives. More precisely, the Cauchy problem can be locally solved for arbitrary initial data

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along any non-characteristic hypersurface. Many of the equations of mechanics are hyperbolic, and so the study ...

Hyperbolic Partial Differential Equations
| Serge Alinhac ...
Exact Solutions > Nonlinear Partial

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PDF version of this page. 2. Nonlinear
Hyperbolic Equations 2.1. Nonlinear

Wave Equations of the Form $w_{tt} = aw_{xx} + f(w)$
 $w_{tt} = aw_{xx} + aw + bw^n$.

Klein--Gordon equation with a power-law
nonlinearity. $w_{tt} = w_{xx} + aw^n + bw$

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2n?1.

NONLINEAR HYPERBOLIC PARTIAL
DIFFERENTIAL EQUATIONS AND ...

In the present paper, we establish the existence of the solution of the hyperbolic partial differential equation with a nonlinear operator that satisfies the

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general initial conditions

Hyperbolic Equations - EqWorld
A Note on Development of Singularities
of Solutions of Nonlinear Hyperbolic
Partial Differential Equations (L-W Lin)
Strange Attractors in Pseudospectral
Solutions of the Dissipative Zakharov

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Equations (S-Q Ma et al.) On Half-Space
Problems for the Heat Equations with
Nonlinear Boundary Conditions (M-X
Wang & S Wang)

hyperbolic equations | IEEE DataPort
He is the author of Blowup for Nonlinear
Hyperbolic Equations (Birkhäuser, 1995)

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and Pseudo-differential Operators and the Nash–Moser Theorem (with P. Gérard, American Mathematical Society, 2007). His primary areas of research are linear and nonlinear partial differential equations.

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(5-8 pages) after the end of the ... Sogge,
Lectures on Nonlinear Wave Equations,
Second edition. International Press,
Boston, MA, 2008.

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The Existence of Global Solutions of the
Nonlinear ...

The author is a professor of mathematics
at the University of Michigan. A
recognized expert in partial differential
equations, he has made important
contributions to the transformation of

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three areas of hyperbolic partial differential equations: nonlinear microlocal analysis, the control of waves, and nonlinear geometric optics.

Advances in Nonlinear Partial
Differential Equations and ...

In the case of complex-valued functions a

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non-linear partial differential equation is defined similarly. 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.

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Hyperbolic partial differential equation -
Wikipedia

Hyperbolic nonconservative partial
differential equations, such as the Von
Foerster system, in which boundary
conditions may depend upon the
dependent variable (integral boundary

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conditions, for example) are solved by an approximation method based on similar work of the author for (nonlinear stochastic) ordinary differential equations.

Peter Lax - Wikipedia

A presentation of the fundamentals of

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modern numerical techniques for a wide range of linear and nonlinear elliptic, parabolic and hyperbolic partial differential equations and integral equations central to a wide variety of applications in science, engineering, and other fields. Topics include:
Mathematical Formulations; Finite

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Difference and Finite Volume
Discretizations; Finite Element ...

Development of Singularities of Solutions
of Nonlinear ...

In the present paper, we establish the
existence of the solution of the hyperbolic
partial differential equation with a

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nonlinear operator that satisfies the general initial conditions where are given functions under the assumptions of form-bounded conditions on its coefficients.

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Hormander: Lectures on Nonlinear Hyperbolic Differential Equations
Springer-Verlag: Berlin-Heidelberg, 1997 5. P. D.

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Hyperbolic Equations, Nonlinear -
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NONLINEAR HYPERBOLIC PARTIAL
DIFFERENTIAL EQUATIONS AND
DYNAMIC PROGRAMMING

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University of Southern California, Los

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Angeles, CA 907. U.S.A. (Received May
1982)

Numerical methods for nonlinear second-
order hyperbolic ...

Abstract. Here we study nonlinear
hyperbolic equations, with emphasis on
quasi-linear systems arising from

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continuum mechanics, describing such physical phenomena as vibrating strings and membranes and the motion of a compressible fluid, such as air.

Non-linear partial differential equation -
Encyclopedia of ...

The resulting method is a semi-discrete

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Rothe's technique, for the original partial differential equations has been transformed into a system of ordinary differential equations in space. For second-order accurate finite difference discretizations of the second-order spatial derivatives, a system of nonlinear algebraic equations is obtained.

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