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establish the existence of
the solution of the

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nonlinear operator that
satisfies the general
initial conditions

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California, Los Angeles, CA
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1982)

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Hyperbolic nonconservative
partial differential
equations, such as the Von
Foerster system, in which
boundary conditions may

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

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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

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differential equations, he has made important contributions to the transformation of three areas of hyperbolic partial differential equations: nonlinear microlocal analysis, the control of

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waves, and nonlinear
geometric optics.

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Exact Solutions > Nonlinear
Partial Differential

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Equations > Second-Order

Hyperbolic Partial

Differential Equations 2.

Nonlinear Hyperbolic

Equations 2.1. Nonlinear

Wave Equations of the Form @

$2w @t^2 = a@ 2w @x^2 + f(w).1.$

$@2w @t^2 = @2w @x^2 + aw +$

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Numerical methods for
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hyperbolic ...

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Abstract. Here we study nonlinear hyperbolic equations, with emphasis on quasi-linear systems arising from continuum mechanics, describing such physical phenomena as vibrating strings and membranes and

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the motion of a compressible fluid, such as air.

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Equations > Second-Order

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version of this page. 2.

Nonlinear Hyperbolic

Equations 2.1. Nonlinear

Wave Equations of the Form w

$w_{tt} = aw_{xx} + f(w)$ $w_{tt} = aw$

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$xx + aw + bw^n$.

Klein-Gordon equation with
a power-law nonlinearity. w
 $tt = wxx + aw^n + bw^{2n}$.

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He is the author of Blowup

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for Nonlinear Hyperbolic
Equations (Birkhäuser, 1995)
and Pseudo-differential
Operators and the Nash–Moser
Theorem (with P. Gérard,
American Mathematical
Society, 2007). His primary
areas of research are linear

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and nonlinear partial
differential equations.

Advances in Nonlinear
Partial Differential
Equations and ...

In the case of complex-
valued functions a non-

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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

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equations. The order of (1) is defined as the highest order of a derivative occurring in the equation.

Hyperbolic Partial
Differential Equations

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Nonlinear

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

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the first n derivatives.

More precisely, the Cauchy problem can be locally solved for arbitrary initial data along any non-characteristic hypersurface. Many of the equations of mechanics are

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hyperbolic, and so the study

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Heidelberg, 1997 5. P. D.

Peter Lax - Wikipedia
A presentation of the
fundamentals of modern
numerical techniques for a
wide range of linear and
nonlinear elliptic,

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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

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Difference and Finite Volume
Discretizations; Finite
Element ...

Development of Singularities
of Solutions of Nonlinear

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

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given functions under the assumptions of form-bounded conditions on its coefficients.

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