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In mathematics, a hyperbolic partial differential equation of order  $n$

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## Hyperbolic Partial

$\{ \displaystyle n \}$  is a

partial differential equation that, roughly speaking, has a well-posed

initial value problem for the first  $n - 1$

$\{ \displaystyle n-1 \}$

derivatives. More precisely,

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the Cauchy problem can be locally solved for arbitrary initial data along any non-characteristic hypersurface. Many of the equations of mechanics are hyperbolic, and so the study of hyperbolic equations is of



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Exact Solutions > Nonlinear



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Nonlinear Hyperbolic

Equations 2.1. Nonlinear

Wave Equations of the Form @

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

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 $\partial^2 w / \partial t^2 = \partial^2 w / \partial x^2 + a w +$   
b w^n. Klein-Gordon equation  
with a power-law

nonlinearity. . . 2.  $\partial^2 w / \partial t^2 =$   
 $\partial^2 w / \partial x^2 + a w^n + b w^{2n-1}.$

Klein-Gordon equation with a  
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Hyperbolic nonconservative partial differential equations, such as the Von Foerster system, in which boundary conditions may depend upon the dependent

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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 a gradient catastrophe is known from the work of Lax for essentially nonlinear hyperbolic systems (of two

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first-order differential  
equations) possessing  
Riemann invariants.

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expert in partial differential equations, he has made important

contributions to the

transformation of three

areas of hyperbolic partial

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analysis, the control of  
waves, and nonlinear  
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B2?  $AC > 0$  (hyperbolic partial

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Differential Equations):

hyperbolic equations retain any discontinuities of functions or derivatives in the initial data. An example is the wave equation. The motion of a fluid at supersonic speeds can be

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approximated with hyperbolic PDEs, and the Euler-Tricomi equation is hyperbolic where  $x > 0$ .

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His primary areas of

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research are linear and  
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excellent introduction to  
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linear equations and  
symmetric systems, as well

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Differentiation of the

positivity of the solution  
for nonlinear hyperbolic

equations with  $\epsilon = 0$  crit

was also assessed for Eq.

(1) in  $0 < x < 1$  with  $a = 1,$

$b = 1, u_0 = \sin(\pi x), u$

$u_0 = 0$  and  $S(u) = 1 - u$

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4, and similar results to those described above have been found.

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Differential Equations are used to model a large and extremely important

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This method of solution of

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(1.1.3) is easily extended to nonlinear equations of the form  $u_t + au_x = f(t, x, u)$ .

(1.1.5) See Exercises 1.1.5, 1.1.4, and 1.1.6 for more on nonlinear equations of this form.

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We now examine systems of hyperbolic equations with constant coefficients in one space dimension.

~~Chapter 1~~

~~Hyperbolic Partial Differential  
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Consequently we let... /  
VC VL \ - m 0 \ , . , H = (- ^ / - C  
V' D = (0 r) ^ and make the

substitution  $s = Hw$ . (5)

Since  $HA = DH$ , we obtain the  
equation (in normal  
hyperbolic form)  $s_{it} + Ds s^{\wedge}$   
 $= Bz + \wedge$ , (6) LINEAR

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DIFFERENTIAL EQUATIONS 385

where  $\hat{f}P \ " \ ^{(i \hat{o} \hat{)}}H-1 \circ$  If  
B is zero, Eq. (6) is of the  
form discussed in Section 3.

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