

the hyperbolic cauchy problem pdf

[PDF]Free Hyperbolic Cauchy Problem download Book Hyperbolic Cauchy Problem.pdf Cauchy boundary condition - Wikipedia Fri, 09 Nov 2018 13:49:00 GMT In mathematics, a Cauchy (French:) boundary conditions augments an ordinary differential equation or a partial differential

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In the second part, the correctness of the Cauchy problem for effectively hyperbolic operators is proved with a precise estimate of the loss of derivatives. This method can be applied to other (non) hyperbolic problems.

The Hyperbolic Cauchy Problem | SpringerLink

The Cauchy problem for the differential operator $a(x, \hat{a}, \hat{a}, x)$ with the Cauchy data \tilde{f} on S consists in finding a function u defined in a neighbourhood $U \in \mathbb{R}^2$ of x_0 in \mathbb{R}^n satisfying (2.1) $a(x, \hat{a}, \hat{a}, x) u = f$ in $U \in \mathbb{R}^2$ and $u(x) = u_0(x)$, $\hat{a}, \hat{a}, n u(x) = u_1(x)$; ..., $\hat{a}, \hat{a}, n! \hat{a}^{n-1} u(x) = u_{n-1}(x)$ for $x \in \hat{a} \in U \in \mathbb{R}^2$. When such a u exists we call it a solution of the Cauchy problem.

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In the second part, the correctness of the Cauchy problem for effectively hyperbolic operators is proved with a precise estimate of the loss of derivatives. This method can be applied to other (non) hyperbolic problems.

The Hyperbolic Cauchy Problem | Kunihiko Kajitani | Springer

We prove that the Cauchy problem for a hyperbolic, homogeneous equation with C^∞ coefficients depending on time, is well posed in every Gevrey class, although in general it is ...

(PDF) Hyperbolic Equations with Non-analytic Coefficients

REND.SEM.MAT.UNIV.PADOVA, Vol. 110 (2003) An Ill Posed Cauchy Problem for a Hyperbolic System in Two Space Dimensions. ALBERTO BRESSAN (*) 1. Introduction. The theory of weak solutions for nonlinear conservation laws is now

An Ill Posed Cauchy Problem for a Hyperbolic System in Two

purely variational approach to the Cauchy Problem for a wide class of defocusing hyperbolic equations. The main novel feature is that the solutions are obtained as limits of functions that minimize suitable functionals in space-time (where the initial data of the Cauchy Problem serve as pre-scribed boundary conditions).

A minimization approach to hyperbolic Cauchy problems

There is a well developed theory of the Cauchy problem for hyperbolic equations on globally hyperbolic spacetimes [1] - [4]. A spacetime oriented with respect to time (i.e. a pair (M, g) , where M is a smooth manifold, g is the Lorentz metric) is called globally hyperbolic, if M is diffeomorphic to $\mathbb{R} \times \hat{I}$, where \hat{I} is a Cauchy surface.

Cauchy Problem on Non-globally Hyperbolic Spacetimes

Global solution to the Cauchy problem $u_t + f(u) x = 0$, $u(0, x) = \hat{A} u(x)$ Theorem (Glimm, 1965). Assume: system is strictly hyperbolic each characteristic field is either linearly degenerate or genuinely nonlinear

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