C. Carasso   P. Charrier

B. Hanouzet   J.-L. Joly (Eds.)

Nonlinear Hyperbolic Problems

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Nonlinear Hyperbolic Problems

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Nonlinear Hyperbolic Problems:

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Nonlinear Hyperbolic Problems Claude Carasso,Pierre Charrier,Bernard Hanouzet,Jean-Luc Joly,2006-11-14 The papers included in this proceedings volume are mostly original research papers dealing with life span of waves nonlinear interaction of waves and various applications to fluid mechanics   **Nonlinear Hyperbolic Problems** Claude Carasso,Pierre-Arnaud Raviart,Denis Serre,1987   Nonlinear Hyperbolic Equations — Theory, Computation Methods, and Applications Josef Ballmann,Rolf Jeltsch,2013-03-08 On the occasion of the International Conference on Nonlinear Hyperbolic Problems held in St Etienne France 1986 it was decided to start a two years cycle of conferences on this very rapidly expanding branch of mathematics and it s applications in Continuum Mechanics and Aerodynamics The second conference toolc place in Aachen FRG March 14 18 1988 The number of more than 200 participants from more than 20 countries all over the world and about 100 invited and contributed papers well balanced between theory numerical analysis and applications do not leave any doubt that it was the right decision to start this cycle of conferences of which the third will be organized in Sweden in 1990 ThiS volume contains sixty eight original papers presented at the conference twenty two cif them dealing with the mathematical

theory e g existence uniqueness stability behaviour of solutions physical modelling by evolution equations Twenty two articles in numerical analysis are concerned with stability and convergence to the physically relevant solutions such as schemes especially deviced for treating shoclcs contact discontinuities and artificial boundaries Twenty four papers contain multidimensional computational applications to nonlinear waves in solids flow through porous media and compressible fluid flow including shoclcs real gas effects multiphase phenomena chemical reactions etc The editors and organizers of the Second International Conference on Hyperbolic Problems would lilce to thanlc the Scientific Committee for the generous support of recommending invited lectures and selecting the contributed papers of the conference *Nonlinear Hyperbolic Problems: Theoretical, Applied, and Computational Aspects* Andrea Donato,Francesco Oliveri,2013-03-08 **Some Problems on Nonlinear Hyperbolic Equations and Applications** Yuejun Peng,Bopeng Rao,2010 This volume is composed of two parts Mathematical and Numerical Analysis for Strongly Nonlinear Plasma Models and Exact Controllability and Observability for Quasilinear Hyperbolic Systems and Applications It presents recent progress and results obtained in the domains related to both subjects without attaching much importance to the details of proofs but rather to difficulties encountered to open problems and possible ways to be exploited It will be very useful for promoting further study on some important problems in the future **Nonlinear Hyperbolic Problems** Claude Carasso,Pierre-Arnaud Raviart,Denis Serre,2014-01-15 **Study of Some Problems in the Approximation of Nonlinear Hyperbolic Problems** Seyedeh Fatemeh Nassajian Mojarrad,2023 **A Class of Nonlinear Hyperbolic Problems with Global Solutions** P. D. D'Ancona,Sergio Spagnolo,1992 *Blowup for Nonlinear Hyperbolic Equations* Serge Alinhac,1995-04-07 Solutions to partial differential equations or systems often over specific time periods exhibit smooth behaviour Given sufficient time however they almost invariably undergo a brutal change in behaviour and this phenomenon has become known as blowup In this book the author provides an overview of what is known about this situation and discusses many of the open problems concerning it **Nonlinear Hyperbolic Problems** Marco Cirinà,University of Wisconsin--Madison. Mathematics Research Center,WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER.,1969 The problems considered are the initial value and the mixed boundary problem for a system of quasi linear partial differential equations in two independent variables The main result is that under appropriate conditions the classical local solutions of these problems can be extended to sets of preassigned size Extensions of this type are useful in the control theory of hyperbolic equations Author Some Problems on Nonlinear Hyperbolic Equations and Applications Ta-Tsien Li; Yue-Jun Peng; Bo-Peng Rao, *Workshop on nonlinear hyperbolic problems* Rolf Leis,Reinhard Racke,Sonderforschungsbereich Nichtlineare Partielle Differentialgleichungen Bonn,Deutsche Forschungsgemeinschaft,1990 Nonlinear Hyperbolic Problems Andrea Donato,Francesco Oliveri (matematico.),1993 **Initial Value Problems for Nonlinear Hyperbolic Equations** Nikolaj Andreevič Lar'kin,1983 Nonlinear Hyperbolic Problems ,1989 **Workshop on Nonlinear Hyperbolic Problems** ,1990 **Lecture Notes on**

Numerical Methods for Hyperbolic Equations Elena Vázquez-Cendón,2011-05-23 This volume contains the lecture notes of the Short Course on Numerical Methods for Hyperbolic Equations Faculty of Mathematics University of Santiago de Compostela Spain 2 4 July 2011 The course was organized in recognition of Prof Eleuterio Toro s contribution to education and training on numerical methods for partial differential equations and was organized prior to the International Conference on Numerical Methods for Hyperbolic Equations Theory and Applications which honours Professor Toro in the month of his 65th birthday These lecture notes on selected topics in numerical methods for hyperbolic equations are from renowned academics in both theoretical and applied fields and include contributions on Nonlinear hyperbolic conservation laws First order schemes for the Euler equations High order accuracy monotonicity and non linear methods High order schemes for multidimensional hyperbolic problems A numerical method for the simulation of turbulent mixing and its basis in mathematical theory Lectures Notes on Numerical Methods for Hyperbolic Equations is intended primarily for research students and post doctoral research fellows Some background knowledge on the basics of the theoretical aspects of the partial differential equations their physical meaning and discretization methods is assumed

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