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Editor: Leopoldo NACHBINT

Solution of Continuous Nonlinear PDEs through Order Completion

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Solution Of Continuous Nonlinear Pdes Th

William M. McEneaney



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This work inaugurates a new and general solution method for arbitrary continuous nonlinear PDEs. The solution method is based on Dedekind order completion of usual spaces of smooth functions defined on domains in Euclidean spaces. However, the nonlinear PDEs dealt with need not satisfy any kind of monotonicity properties. Moreover, the solution method is completely type independent. In other words, it does not assume anything about the nonlinear PDEs except for the continuity of their left hand term, which includes the unknown function. Furthermore, the right hand term of such nonlinear PDEs can in fact be given any discontinuous and measurable function. Discrete and Continuous Dynamical Systems, 2009

Nonlinear Partial Differential Equations, 1980-01-01 **Nonlinear Partial Differential Equations** **Unsolved Problems on Mathematics for the 21st Century** Kiyoshi Iseki, 2001 *The Characteristic Method and Its Generalizations for First-Order Nonlinear Partial Differential Equations* Tran Duc Van, Miko Tsuji, Nguyen Duy Thai Son, 1999-06-25
Despite decades of research and progress in the theory of generalized solutions to first order nonlinear partial differential equations, a gap between the local and the global theories remains. The Cauchy characteristic method yields the local theory of classical solutions. Historically, the global theory has principally depended on the vanishing viscosity method. The authors of this volume help bridge the gap between the local and global theories by using the characteristic method as a basis for setting a theoretical framework for the study of global generalized solutions. That is, they extend the smooth solutions obtained by the characteristic method. The authors offer material previously unpublished in book form, including treatments of the life span of classical solutions, the construction of singularities of generalized solutions, new existence and uniqueness theorems on minimax solutions, differential inequalities of Haar type, and their application to the uniqueness of global semi-classical solutions and Hopf type explicit formulas for global solutions. These subjects yield interesting relations between purely mathematical theory and the applications of first order nonlinear PDEs. *The Characteristic Method and Its Generalizations for First Order Nonlinear Partial Differential Equations* represents a comprehensive exposition of the authors' works over the last decade. The book is self-contained and assumes only basic measure theory, topology, and ordinary differential equations as prerequisites. With its innovative approach, new results, and many applications, it will prove valuable to mathematicians, physicists, and engineers, and especially interesting to researchers in nonlinear PDEs, differential inequalities, multivalued analysis, differential games, and related topics in applied analysis. **Mathematical Reviews**, 2006 **Nonlinear Partial Differential Equations** Mi-Ho Giga, Yoshikazu Giga, Jürgen Saal, 2010-05-30
This work will serve as an excellent first course in modern analysis. The main focus is on showing how self-similar solutions are useful in studying the behavior of solutions of nonlinear partial differential equations, especially those of parabolic type. This textbook will be an excellent resource for self-study or classroom use. **Max-Plus Methods for Nonlinear Control and Estimation** William M. McEneaney, 2006
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central focus of this book is the control of continuous time continuous space nonlinear systems Using new techniques that employ the max plus algebra the author addresses several classes of nonlinear control problems including nonlinear optimal control problems and nonlinear robust H_∞ control and estimation problems Several numerical techniques are employed including a max plus eigenvector approach and an approach that avoids the curse of dimensionality Well known dynamic programming arguments show there is a direct relationship between the solution of a control problem and the solution of a corresponding Hamilton Jacobi Bellman HJB partial differential equation PDE The max plus based methods examined in this monograph belong to an entirely new class of numerical methods for the solution of nonlinear control problems and their associated HJB PDEs they are not equivalent to either of the more commonly used finite element or characteristic approaches The potential advantages of the max plus based approaches lie in the fact that solution operators for nonlinear HJB problems are linear over the max plus algebra and this linearity is exploited in the construction of algorithms The book will be of interest to applied mathematicians engineers and graduate students interested in the control of nonlinear systems through the implementation of recently developed numerical methods Researchers and practitioners tangentially interested in this area will also find a readable concise discussion of the subject through a careful selection of specific chapters and sections Basic knowledge of control theory for systems with dynamics governed by differential equations is required

Nonlinear Partial Differential Equations with Applications Tomás Roubicek, 2006-01-17 This book primarily concerns quasilinear and semilinear elliptic and parabolic partial differential equations inequalities and systems The exposition quickly leads general theory to analysis of concrete equations which have specific applications in such areas as electrically semi conductive media modeling of biological systems and mechanical engineering Methods of Galerkin or of Rothe are exposed in a large generality

Order Structure and Topological Methods in Nonlinear Partial Differential Equations Yihong Du, 2006 The maximum principle induces an order structure for partial differential equations and has become an important tool in nonlinear analysis This book is the first of two volumes to systematically introduce the applications of order structure in certain nonlinear partial differential equation problems The maximum principle is revisited through the use of the Krein Rutman theorem and the principal eigenvalues Its various versions such as the moving plane and sliding plane methods are applied to a variety of important problems of current interest The upper and lower solution method especially its weak version is presented in its most up to date form with enough generality to cater for wide applications Recent progress on the boundary blow up problems and their applications are discussed as well as some new symmetry and Liouville type results over half and entire spaces Some of the results included here are published for the first time

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Control Science and Technology for the Progress of Society International Federation of Automatic Control. World Congress,Hajime Akashi,1982 Provides a link between the theory applications of automatic control emphasizing the latest developments practical applications Of interest to control industrial engineers operations researchers systems scientists
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