Lecture Notes in Mathematics 2049

Angelo Favini Gabriela Marinoschi

# Degenerate Nonlinear Diffusion Equations



# **Degenerate Nonlinear Diffusion Equations Lecture Notes In Mathematics**

**Christian G. Meyer** 

#### **Degenerate Nonlinear Diffusion Equations Lecture Notes In Mathematics:**

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problems and optimal control problems are also considered as this technique is useful in their treatment as well The Porous Medium Equation Juan Luis Vazquez, 2007 The Heat Equation is one of the three classical linear partial differential equations of second order that form the basis of any elementary introduction to the area of PDEs and only recently has it come to be fairly well understood In this monograph aimed at research students and academics in mathematics and engineering as well as engineering specialists Professor Vazquez provides a systematic and comprehensive presentation of the mathematical theory of the nonlinear heatequation usually called the Porous Medium Equation PME This equation appears in a number of physical applications such as to describe processes involving fluid flow heat transfer or diffusion Other applications have been proposed in mathematical biology lubrication boundary layer theory and other fields Each chapter contains a detailed introduction and is supplied with a section of notes providing comments historical notes or recommended reading and exercises for the reader Stochastic Processes, Physics and Geometry: New Interplays. II Sergio Albeverio, Fritz Gesztesy, 2000 The second of two volumes with selected treatments of the conference theme Infinite Dimensional Stochastic Analysis and Quantum Physics which positions scientists at the interface of mathematics and physics The 57 papers discuss such topics as the valuation of bonds and options under floating interest rate the loop group factorization of biorthogonal wavelet bases asymptotic properties of the maximal sub interval of a Poisson process generalized configuration spaces for quantum systems Sobolev spaces and the capacity theory of path spaces representing coherent state in white noise calculus and the analytic quantum information manifold There is no index The first volume contains contributions of invited speakers Annotation copyrighted by Book News Inc Portland OR **Integral Methods in** Science and Engineering Barbara S Bertram, Christian Constanda, Allan A. Struthers, 2019-05-20 Based on proceedings of the International Conference on Integral Methods in Science and Engineering this collection of papers addresses the solution of mathematical problems by integral methods in conjunction with approximation schemes from various physical domains Topics and applications include wavelet expansions reaction diffusion systems variational methods fracture theory boundary value problems at resonance micromechanics fluid mechanics combustion problems nonlinear problems elasticity theory and plates and shells Partial Differential Equations in China Chaohao Gu, Xiaxi Ding, Chung-Chun Yang, 2012-12-06 In the past few years there has been a fruitful exchange of expertise on the subject of partial differential equations PDEs between mathematicians from the People's Republic of China and the rest of the world The goal of this collection of papers is to summarize and introduce the historical progress of the development of PDEs in China from the 1950s to the 1980s The results presented here were mainly published before the 1980s but having been printed in the Chinese language have not reached the wider audience they deserve Topics covered include among others nonlinear hyperbolic equations nonlinear elliptic equations nonlinear parabolic equations mixed equations free boundary problems minimal surfaces in Riemannian manifolds microlocal analysis and solitons For mathematicians and physicists interested in the historical development of

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