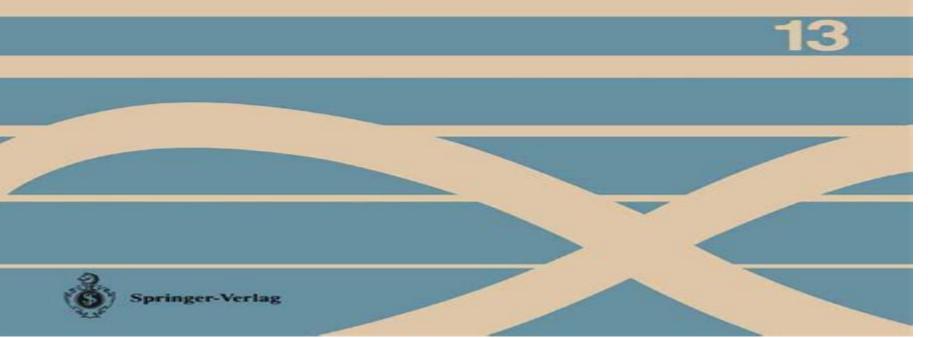
Nonlinear Diffusion Equations and Their Equilibrium States II

Edited by W.-M. Ni, L.A. Peletier, J. Serrin

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Nonlinear Diffusion Equations And Their Equilibrium States Ii

V. Lakshmikantham

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bustion models and in determining metrics which realize given scalar or Gaussian curvatures In the latter direction for example the problem of finding conformal metrics with prescribed curvature leads to a ground state problem involving critical exponents Thus not only analysts but geome ters as well can find common ground in the present work The corresponding mathematical problem is to determine how the struc ture of the nonlinear function f u influences the behavior Nonlinear Diffusion Equations and Their Equilibrium States II. Wei-Ming Ni, Lambertus A. Peletier. James Serrin. 1988-01 Nonlinear Diffusion Equations and Their Equilibrium States, 3 N.G Lloyd, M.G. Ni,L.A. Peletier, J. Serrin, 1991-06-01 Nonlinear diffusion equations have held a prominent place in the theory of partial differential equations both for the challenging and deep math ematical guestions posed by such equations and the important role they play in many areas of science and technology Examples of current inter est are biological and chemical pattern formation semiconductor design environmental problems such as solute transport in groundwater flow phase transitions and combustion theory Central to the theory is the equation Ut cp U f u Here denotes the n dimensional Laplacian cp and f are given functions and the solution is defined on some domain n x 0 T in space time FUn damental questions concern the existence uniqueness and regularity of so lutions the existence of interfaces or free boundaries the question as to whether or not the solution can be continued for all time the asymptotic behavior both in time and space and the development of singularities for instance when the solution ceases to exist after finite time either through extinction or through blow up

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finding conformal metrics with prescribed curvature leads to a ground state problem involving critical exponents Thus not only analysts but geome ters as well can find common ground in the present work The corresponding mathematical problem is to determine how the struc ture of the nonlinear function f u influences the behavior of the solution Differential Equations with Applications in Biology, Physics, and Engineering Goldstein, 2017-10-05 Suitable as a textbook for a graduate seminar in mathematical modelling and as a resource for scientists in a wide range of disciplines Presents 22 lectures from an international conference in Leibnitz Austria no date mentioned explaining recent developments and results Non-Local Cell Adhesion Models Andreas Buttenschön, Thomas Hillen, 2021-06-09 This in differential equatio monograph considers the mathematical modeling of cellular adhesion a key interaction force in cell biology While deeply grounded in the biological application of cell adhesion and tissue formation this monograph focuses on the mathematical analysis of non local adhesion models. The novel aspect is the non local term an integral operator which accounts for forces generated by long ranged cell interactions The analysis of non local models has started only recently and it has become a vibrant area of applied mathematics. This monograph contributes a systematic analysis of steady states and their bifurcation structure combining global bifurcation results pioneered by Rabinowitz equivariant bifurcation theory and the symmetries of the non local term These methods allow readers to analyze and understand cell adhesion on a deep level Variables Michael Schneider, Yum-Tong Siu, 1999 Expository articles on Several Complex Variables and its interactions with PDEs algebraic geometry number theory and differential geometry first published in 2000 **Nonlinear Diffusion Equations** and Their Equilibrium States I W.-M. Ni, L.A. Peletier, James Serrin, 1988-06-24 In recent years considerable interest has been focused on nonlinear diffu sion problems the archetypical equation for these being Ut D u f u Here D denotes the n dimensional Laplacian the solution u u x t is defined over some space time domain of the form n x O T and f u is a given real function whose form is determined by various physical and mathematical applications. These applications have become more varied and widespread as problem after problem has been shown to lead to an equation of this type or to its time independent counterpart the elliptic equation of equilibrium D u f u o Particular cases arise for example in population genetics the physics of nu clear stability phase transitions between liquids and gases flows in porous media the Lend Emden equation of astrophysics various simplified com bustion models and in determining metrics which realize given scalar or Gaussian curvatures In the latter direction for example the problem of finding conformal metrics with prescribed curvature leads to a ground state problem involving critical exponents Thus not only analysts but geome ters as well can find common ground in the present work The corresponding mathematical problem is to determine how the struc ture of the nonlinear function f u influences the behavior of the solution Elliptic Boundary Value Problems of Second Order in Piecewise Smooth Domains Michail Borsuk, Vladimir Kondratiev, 2006-01-12 The book contains a systematic treatment of the qualitative theory of elliptic boundary value problems for linear and quasilinear second order equations in non smooth domains The

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