

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



Nonlinear Diffusion Equations And Their Equilibrium States II:

Nonlinear Diffusion Equations and Their Equilibrium States II W.-M. Ni, L.A. Peletier, James Serrin, 2012-12-06 In recent years considerable interest has been focused on nonlinear diffusion problems the archetypical equation for these being $U_t = U \Delta u + f(u)$ Here Δ denotes the n dimensional Laplacian the solution $u(x,t)$ is defined over some space time domain of the form $\Omega \times [0, T]$ 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 $U \Delta u + f(u) = 0$ Particular cases arise for example in population genetics the physics of nuclear stability phase transitions between liquids and gases flows in porous media the Lend Emden equation of astrophysics various simplified combustion 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 geometers as well can find common ground in the present work The corresponding mathematical problem is to determine how the structure of the nonlinear function $f(u)$ influences the behavior of the solution *Nonlinear Diffusion Equations and Their Equilibrium States*, 3 N.G Lloyd, M.G. Ni, L.A. Peletier, J. Serrin, 2012-12-06 Nonlinear diffusion equations have held a prominent place in the theory of partial differential equations both for the challenging and deep mathematical questions posed by such equations and the important role they play in many areas of science and technology Examples of current interest 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 $U_t = c_p U \Delta u + f(u)$ Here Δ denotes the n dimensional Laplacian c_p and f are given functions and the solution is defined on some domain $\Omega \times [0, T]$ in space time Fundamental questions concern the existence uniqueness and regularity of solutions 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 **Nonlinear Diffusion Equations and Their Equilibrium States I** W.-M. Ni, L.A. Peletier, James Serrin, 2012-12-06 In recent years considerable interest has been focused on nonlinear diffusion problems the archetypical equation for these being $U_t = D \Delta u + f(u)$ Here D denotes the n dimensional Laplacian the solution $u(x,t)$ is defined over some space time domain of the form $\Omega \times [0, T]$ 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 $D \Delta u + f(u) = 0$ Particular cases arise for example in population genetics the physics of nuclear 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 geometers as well can find common ground in the present work The corresponding mathematical problem is to determine how the structure of the nonlinear function $f(u)$ influences the behavior of the solution

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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 mathematical questions posed by such equations and the important role they play in many areas of science and technology Examples of current interest 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 $U_t = \Delta u + f(u)$ Here denotes the n dimensional Laplacian Δ and f are given functions and the solution is defined on some domain $\Omega \times [0, T]$ in space time Fundamental questions concern the existence uniqueness and regularity of solutions 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

Nonlinear Diffusion Equations and Their Equilibrium States II, 1988
Selected Papers on Analysis and Differential Equations 2003 This volume contains translations of papers that originally appeared in the Japanese journal Sugaku Ordinarily the papers would appear in the AMS translation of that journal but to expedite publication the Society has chosen to publish them as a volume of selected papers The papers range over a variety of topics including nonlinear partial differential equations C algebras and Schrodinger operators The volume is suitable for graduate students and research mathematicians interested in analysis and differential equations
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Serrin, 1988-06-24 In recent years considerable interest has been focused on nonlinear diffusion problems the archetypical equation for these being $U_t = \Delta u + f(u)$ Here denotes the n dimensional Laplacian the solution $u(x, t)$ is defined over some space time domain of the form $\Omega \times [0, T]$ 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 $\Delta u + f(u) = 0$ Particular cases arise for example in population genetics the physics of nuclear stability phase transitions between liquids and gases flows in porous media the Lend Emden equation of astrophysics various simplified combustion 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 geometers as well can find common ground in the present work The corresponding mathematical problem is to determine how the structure 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 in differential equations

Non-Local Cell Adhesion Models Andreas Buttenschön, Thomas Hillen, 2021-06-09 This 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

Several Complex 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 diffusion problems the archetypical equation for these being $U_t = D(u)f(u)$ Here D denotes the n dimensional Laplacian the solution $u(x,t)$ is defined over some space time domain of the form $[0, \infty) \times \Omega$ 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 $D(u)f(u) = 0$ Particular cases arise for example in population genetics the physics of nuclear stability phase transitions between liquids and gases flows in porous media the Lend Emden equation of astrophysics various simplified combustion 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 geometers as well can find common ground in the present work The corresponding mathematical problem is to determine how the structure 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

authors concentrate on the following fundamental results sharp estimates for strong and weak solutions solvability of the boundary value problems regularity assertions for solutions near singular points Key features New the Hardy Friedrichs Wirtinger type inequalities as well as new integral inequalities related to the Cauchy problem for a differential equation Precise exponents of the solution decreasing rate near boundary singular points and best possible conditions for this The question about the influence of the coefficients smoothness on the regularity of solutions New existence theorems for the Dirichlet problem for linear and quasilinear equations in domains with conical points The precise power modulus of continuity at singular boundary point for solutions of the Dirichlet mixed and the Robin problems The behaviour of weak solutions near conical point for the Dirichlet problem for m Laplacian The behaviour of weak solutions near a boundary edge for the Dirichlet and mixed problem for elliptic quasilinear equations with triple degeneration Precise exponents of the solution decreasing rate near boundary singular points and best possible conditions for this The question about the influence of the coefficients smoothness on the regularity of solutions New existence theorems for the Dirichlet problem for linear and quasilinear equations in domains with conical points The precise power modulus of continuity at singular boundary point for solutions of the Dirichlet mixed and the Robin problems The behaviour of weak solutions near conical point for the Dirichlet problem for m Laplacian The behaviour of weak solutions near a boundary edge for the Dirichlet and mixed problem for elliptic quasilinear equations with triple degeneration Entire Solutions of Semilinear Elliptic Equations Ilya A. Kuzin, Stanislav I. Pohozaev, 2012-12-06 Semilinear elliptic equations play an important role in many areas of mathematics and its applications to physics and other sciences This book presents a wealth of modern methods to solve such equations including the systematic use of the Pohozaev identities for the description of sharp estimates for radial solutions and the fibering method Existence results for equations with supercritical growth and non zero right hand sides are given Readers of this exposition will be advanced students and researchers in mathematics physics and other sciences who want to learn about specific methods to tackle problems involving semilinear elliptic equations Free Boundary Problems J I Diaz, Juan Luis Vazquez, M A Herrero, Amable Linan, 1995-04-04 This research note consists of selected contributions from the 1993 International Conference on Free Boundary Problems Theory and Applications These represent coherent and high level research in the field of free boundary problems Topics include mean curvature flows phase transitions and material sciences fluid mechanics and combustion problems *Handbook of Differential Equations: Stationary Partial Differential Equations* Michel Chipot, Pavol Quittner, 2006-08-08 This handbook is volume III in a series devoted to stationary partial differential equations Similarly as volumes I and II it is a collection of self contained state of the art surveys written by well known experts in the field The topics covered by this handbook include singular and higher order equations problems near critically problems with anisotropic nonlinearities dam problem T convergence and Schauder type estimates These surveys will be useful for both beginners and experts and speed up the progress of corresponding rapidly developing and fascinating areas

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Harnack Inequalities and Nonlinear Operators
 Vincenzo Vespri,Ugo Gianazza,Dario Daniele Monticelli,Fabio Punzo,Daniele Andreucci,2021-05-29 The book contains two contributions about the work of Emmanuele DiBenedetto and a selection of original papers The authors are some of the main experts in Harnack s inequalities and nonlinear operators These papers are part of the contributions presented during the conference to celebrate the 70th birthday of Prof Emmanuele DiBenedetto which was held at Il Palazzone in Cortona from June 18th to 24th 2017 The papers are focused on current research topics regarding the qualitative properties of solutions connections with calculus of variations Harnack inequality and regularity theory Some papers are also related to various applications Many of the authors have shared with Prof DiBenedetto an intense scientific and personal collaboration while many others have taken inspiration from and further developed his field of research The topics of the conference are certainly of great interest for the international mathematical community

Reaction-diffusion Equations And Their Applications And Computational Aspects - Proceedings Of The China-japan Symposium Tatsien Li,M Mimura,Yasumasa Nishiura,Q X Ye,1997-02-03 The aim of the symposium was to provide a forum for presenting and discussing recent developments and trends in Reaction diffusion Equations and to promote scientific exchanges among mathematicians in China and in Japan especially for the younger generation The topics discussed were Layer dynamics Traveling wave solutions and its stability Equilibrium solutions and its limit behavior stability Bifurcation phenomena Computational solutions and Infinite dimensional dynamical system

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