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Nonlinear Differential Equations and Dynamical Systems

Edited by

Feliz Manuel Minhós and João Fialho

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Systems Of Nonlinear Partial Differential Equations

Michael Struwe



Systems Of Nonlinear Partial Differential Equations:

Systems of Nonlinear Partial Differential Equations, 1983 *Nonlinear Partial Differential Equations*, 1980-01-01
Nonlinear Partial Differential Equations **Systems of Nonlinear Partial Differential Equations** Anthony
Leung, 2014-03-14 *Handbook of Nonlinear Partial Differential Equations, Second Edition* Andrei D. Polyabin, Valentin F.
Zaitsev, 2016-04-19 New to the Second Edition More than 1 000 pages with over 1 500 new first second third fourth and
higher order nonlinear equations with solutions Parabolic hyperbolic elliptic and other systems of equations with solutions
Some exact methods and transformations Symbolic and numerical methods for solving nonlinear PDEs with Maple™
Mathematica and MATLAB Many new illustrative examples and tables A large list of references consisting of over 1 300
sources To accommodate different mathematical backgrounds the authors avoid wherever possible the use of special
terminology They outline the methods in a schematic simplified manner and arrange the material in increasing order of
complexity **Non-Linear Partial Differential Equations** E.E. Rosinger, 1990-11-22 A massive transition of interest from
solving linear partial differential equations to solving nonlinear ones has taken place during the last two or three decades The
availability of better computers has often made numerical experimentations progress faster than the theoretical
understanding of nonlinear partial differential equations The three most important nonlinear phenomena observed so far
both experimentally and numerically and studied theoretically in connection with such equations have been the solitons
shock waves and turbulence or chaotical processes In many ways these phenomena have presented increasing difficulties in
the mentioned order In particular the latter two phenomena necessarily lead to nonclassical or generalized solutions for
nonlinear partial differential equations *Solving Nonlinear Partial Differential Equations with Maple and Mathematica*
Inna Shingareva, Carlos Lizárraga-Celaya, 2011-07-24 The emphasis of the book is given in how to construct different types of
solutions exact approximate analytical numerical graphical of numerous nonlinear PDEs correctly easily and quickly The
reader can learn a wide variety of techniques and solve numerous nonlinear PDEs included and many other differential
equations simplifying and transforming the equations and solutions arbitrary functions and parameters presented in the book
Numerous comparisons and relationships between various types of solutions different methods and approaches are provided
the results obtained in Maple and Mathematica facilitates a deeper understanding of the subject Among a big number of CAS
we choose the two systems Maple and Mathematica that are used worldwide by students research mathematicians scientists
and engineers As in the our previous books we propose the idea to use in parallel both systems Maple and Mathematica since
in many research problems frequently it is required to compare independent results obtained by using different computer
algebra systems Maple and or Mathematica at all stages of the solution process One of the main points related to CAS is
based on the implementation of a whole solution method e g starting from an analytical derivation of exact governing
equations constructing discretizations and analytical formulas of a numerical method performing numerical procedure

obtaining various visualizations and comparing the numerical solution obtained with other types of solutions considered in the book e g with asymptotic solution

Nonlinear Systems of Partial Differential Equations in Applied Mathematics Basil Nicolaenko, Darryl D. Holm, James M. Hyman, American Mathematical Society, 1986-12-31 These two volumes of 47 papers focus on the increased interplay of theoretical advances in nonlinear hyperbolic systems completely integrable systems and evolutionary systems of nonlinear partial differential equations The papers both survey recent results and indicate future research trends in these vital and rapidly developing branches of PDEs The editor has grouped the papers loosely into the following five sections integrable systems hyperbolic systems variational problems evolutionary systems and dispersive systems However the variety of the subjects discussed as well as their many interwoven trends demonstrate that it is through interactive advances that such rapid progress has occurred These papers require a good background in partial differential equations Many of the contributors are mathematical physicists and the papers are addressed to mathematical physicists particularly in perturbed integrable systems as well as to PDE specialists and applied mathematicians in general

Nonlinear Systems of Partial Differential Equations in Applied Mathematics, Part 1 Basil Nicolaenko, Darryl D.

Holm, James M. Hyman, 1986 Focusing on the increased interplay of theoretical advances in nonlinear hyperbolic systems completely integrable systems and evolutionary systems of nonlinear partial differential equations this title contains papers grouped in sections integrable systems hyperbolic systems variational problems evolutionary systems and dispersive systems

Transformation Methods For Nonlinear Partial Differential Equations Dominic G B Edelen, Jian-hua

Wang, 1992-06-09 The purpose of the book is to provide research workers in applied mathematics physics and engineering with practical geometric methods for solving systems of nonlinear partial differential equations The first two chapters provide an introduction to the more or less classical results of Lie dealing with symmetries and similarity solutions The results however are presented in the context of contact manifolds rather than the usual jet bundle formulation and provide a number of new conclusions The remaining three chapters present essentially new methods of solution that are based on recent publications of the authors The text contains numerous fully worked examples so that the reader can fully appreciate the power and scope of the new methods In effect the problem of solving systems of nonlinear partial differential equations is reduced to the problem of solving families of autonomous ordinary differential equations This allows the graphs of solutions of the system of partial differential equations to be realized as certain leaves of a foliation of an appropriately defined contact manifold In fact it is often possible to obtain families of solutions whose graphs foliate an open subset of the contact manifold These ideas are extended in the final chapter by developing the theory of transformations that map a foliation of a contact manifold onto a foliation This analysis gives rise to results of surprising depth and practical significance In particular an extended Hamilton Jacobi method for solving systems of partial differential equations is obtained

Transformation Methods for Nonlinear Partial Differential Equations Dominic G. B. Edelen, Jian-hua Wang, 1992 The purpose of the

book is to provide research workers in applied mathematics physics and engineering with practical geometric methods for solving systems of nonlinear partial differential equations The first two chapters provide an introduction to the more or less classical results of Lie dealing with symmetries and similarity solutions The results however are presented in the context of contact manifolds rather than the usual jet bundle formulation and provide a number of new conclusions The remaining three chapters present essentially new methods of solution that are based on recent publications of the authors The text contains numerous fully worked examples so that the reader can fully appreciate the power and scope of the new methods In effect the problem of solving systems of nonlinear partial differential equations is reduced to the problem of solving families of autonomous ordinary differential equations This allows the graphs of solutions of the system of partial differential equations to be realized as certain leaves of a foliation of an appropriately defined contact manifold In fact it is often possible to obtain families of solutions whose graphs foliate an open subset of the contact manifold These ideas are extended in the final chapter by developing the theory of transformations that map a foliation of a contact manifold onto a foliation This analysis gives rise to results of surprising depth and practical significance In particular an extended Hamilton Jacobi method for solving systems of partial differential equations is obtained

Generalized Solutions of Nonlinear Partial Differential Equations E.E. Rosinger, 1987-11-01 During the last few years several fairly systematic nonlinear theories of generalized solutions of rather arbitrary nonlinear partial differential equations have emerged The aim of this volume is to offer the reader a sufficiently detailed introduction to two of these recent nonlinear theories which have so far contributed most to the study of generalized solutions of nonlinear partial differential equations bringing the reader to the level of ongoing research The essence of the two nonlinear theories presented in this volume is the observation that much of the mathematics concerning existence uniqueness regularity etc of generalized solutions for nonlinear partial differential equations can be reduced to elementary calculus in Euclidean spaces combined with elementary algebra in quotient rings of families of smooth functions on Euclidean spaces all of that joined by certain asymptotic interpretations In this way one avoids the complexities and difficulties of the customary functional analytic methods which would involve sophisticated topologies on various function spaces The result is a rather elementary yet powerful and far reaching method which can among others give generalized solutions to linear and nonlinear partial differential equations previously unsolved or even unsolvable within distributions or hyperfunctions Part 1 of the volume discusses the basic limitations of the linear theory of distributions when dealing with linear or nonlinear partial differential equations particularly the impossibility and degeneracy results Part 2 examines the way Colombeau constructs a nonlinear theory of generalized functions and then succeeds in proving quite impressive existence uniqueness regularity etc results concerning generalized solutions of large classes of linear and nonlinear partial differential equations Finally Part 3 is a short presentation of the nonlinear theory of Rosinger showing its connections with Colombeau's theory which it contains as a particular case

Generalized Solutions of Systems of

Nonlinear Partial Differential Equations Jan Harm Van der Walt, 2005 In this thesis we establish a general and type independent theory for the existence and regularity of generalized solutions of large classes of systems of nonlinear partial differential equations PDEs In this regard our point of departure is the Order Completion Method The spaces of generalized functions to which the solutions of such systems of PDEs belong are constructed as the completions of suitable uniform convergence spaces of normal lower semi continuous functions It is shown that large classes of systems of nonlinear PDEs admit generalized solutions in the mentioned spaces of generalized functions Furthermore the generalized solutions that we construct satisfy a blanket regularity property in the sense that such solutions may be assimilated with usual normal lower semi continuous functions These fundamental existence and regularity results are obtained as applications of basic topological processes namely the completion of uniform convergence spaces and elementary properties of real valued continuous functions In particular those techniques from functional analysis which are customary in the study of nonlinear PDEs are not used at all The mentioned sophisticated methods of functional analysis are used only to obtain additional regularity properties of the generalized solutions of systems of nonlinear PDEs and are thus relegated to a secondary role Over and above the mentioned blanket regularity of the solutions it is shown that for a large class of equations the generalized solutions are in fact usual classical solutions of the respective system of equations everywhere except on a closed nowhere dense subset of the domain of definition of the system of equations This result is obtained under minimal assumptions on the smoothness of the equations and is an application of convenient compactness theorems for sets of sufficiently smooth functions with respect to suitable topologies on spaces of such functions As an application of the existence and regularity results presented here we obtain for the first time in the literature an extension of the celebrated Cauchy Kovalevskaja Theorem on its own general and type independent grounds to equations that are not analytic

Systems of Nonlinear Partial Differential Equations A.W. Leung, 2013-03-09 Et moi si j'avais su comment en revenir One service mathematics has rendered the journey scrais point alle human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense Eric T Bell able to do something with it o Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'être of this series

Nonlinear Systems Of Partial Differential Equations: Applications To Life And Physical Sciences Anthony W Leung, 2009-08-28 The book presents the theory of diffusion reaction equations starting from the Volterra Lotka systems developed in the eighties for Dirichlet boundary conditions It uses the analysis of applicable systems of partial differential

equations as a starting point for studying upper lower solutions bifurcation degree theory and other nonlinear methods It also illustrates the use of semigroup stability theorems and W2p theory Introductory explanations are included in the appendices for non expert readers The first chapter covers a wide range of steady state and stability results involving prey predator competing and cooperating species under strong or weak interactions Many diagrams are included to easily understand the description of the range of parameters for coexistence The book provides a comprehensive presentation of topics developed by numerous researchers Large complex systems are introduced for modern research in ecology medicine and engineering Chapter 3 combines the theories of earlier chapters with the optimal control of systems involving resource management and fission reactors This is the first book to present such topics at research level Chapter 4 considers persistence cross diffusion and boundary induced blow up etc The book also covers traveling or systems of waves coupled Navier Stokes and Maxwell systems and fluid equations of plasma display These should be of interest to life and physical scientists

Nonlinear Partial Differential Equations in Engineering W. F. Ames, 1965-01-01 *Nonlinear Partial Differential Equations in Engineering* Physical Mathematics and Nonlinear Partial Differential Equations Lightbourne, 1985-08-27 This volume consists of the proceedings of the conference on Physical Mathematics and Nonlinear Partial Differential Equations held at West Virginia University in Morgantown It describes some work dealing with weak limits of solutions to nonlinear systems of partial differential equations

Variational Methods Michael Struwe, 2000 Hilbert s talk at the second International Congress of 1900 in Paris marked the beginning of a new era in the calculus of variations A development began which within a few decades brought tremendous success highlighted by the 1929 theorem of Ljusternik and Schnirelman on the existence of three distinct prime closed geodesics on any compact surface of genus zero and the 1930 31 solution of Plateau s problem by Douglas and Rad The book gives a concise introduction to variational methods and presents an overview of areas of current research in the field The third edition gives a survey on new developments in the field References have been updated and a small number of mistakes have been rectified

Systems of Nonlinear Partial Differential Equations J. M. Ball, 1983 **Singular Nonlinear Partial Differential Equations** Raymond Gérard, Hidetoshi Tahara, 2012-12-06 The aim of this book is to put together all the results that are known about the existence of formal holomorphic and singular solutions of singular non linear partial differential equations We study the existence of formal power series solutions holomorphic solutions and singular solutions of singular non linear partial differential equations In the first chapter we introduce operators with regular singularities in the one variable case and we give a new simple proof of the classical Maillet s theorem for algebraic differential equations In chapter 2 we extend this theory to operators in several variables The chapter 3 is devoted to the study of formal and convergent power series solutions of a class of singular partial differential equations having a linear part using the method of iteration and also Newton s method As an application of the former results we look in chapter 4 at the local theory of differential equations of the form $xy' = 1 + x y$ and in particular we show

how easy it is to find the classical results on such an equation when $1 \ 0 \ 0 \ 0$ and give also the study of such an equation when $1 \ 0 \ 0 \ 0$ which was never given before and can be extended to equations of the form $Ty = F(x, y)$ where T is an arbitrary vector field

Partial Differential Equations Abdelmoujib Benkirane, A. Touzani, 2002-05-06 This impressive compilation of the material presented at the International Conference on Partial Differential Equations held in Fez Morocco represents an integrated discussion of all major topics in the area of partial differential equations highlighting recent progress and new trends for real world applications

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