

Non Linear Partial Differential Equation

Theorem If $F(x, y, z, p, q) = 0$ be a nonlinear partial differential equation then the Charpit's auxiliary

equations are:
$$\frac{\frac{dp}{\frac{\partial F}{\partial x} + p \frac{\partial F}{\partial z}}}{\frac{\partial F}{\partial x} + p \frac{\partial F}{\partial z}} = \frac{\frac{dq}{\frac{\partial F}{\partial y} + q \frac{\partial F}{\partial z}}}{\frac{\partial F}{\partial y} + q \frac{\partial F}{\partial z}} = \frac{\frac{dz}{-p \frac{\partial F}{\partial p} - q \frac{\partial F}{\partial q}}}{-p \frac{\partial F}{\partial p} - q \frac{\partial F}{\partial q}} = \frac{dx}{-\frac{\partial F}{\partial p}} = \frac{dy}{-\frac{\partial F}{\partial q}}$$

or,
$$\frac{dp}{F_x + p F_z} = \frac{dq}{F_y + q F_z} = \frac{dz}{-p F_p - q F_q} = \frac{dx}{-F_p} = \frac{dy}{-F_q}$$

Problem 1: Find the complete integral of the given partial differential equation by Charpit's method

$$p^2 - y^2 q = y^2 - x^2$$

Solution Given that, $p^2 - y^2 q = y^2 - x^2$

Let, $F(x, y, z, p, q) = p^2 - y^2 q - y^2 + x^2 = 0$ (i)

We know the Charpit's auxiliary equations are

$$\frac{\frac{dp}{\frac{\partial F}{\partial x} + p \frac{\partial F}{\partial z}}}{\frac{\partial F}{\partial x} + p \frac{\partial F}{\partial z}} = \frac{\frac{dq}{\frac{\partial F}{\partial y} + q \frac{\partial F}{\partial z}}}{\frac{\partial F}{\partial y} + q \frac{\partial F}{\partial z}} = \frac{\frac{dz}{-p \frac{\partial F}{\partial p} - q \frac{\partial F}{\partial q}}}{-p \frac{\partial F}{\partial p} - q \frac{\partial F}{\partial q}} = \frac{dx}{-\frac{\partial F}{\partial p}} = \frac{dy}{-\frac{\partial F}{\partial q}}$$

or,
$$\frac{dp}{2x+0} = \frac{dq}{-2yq-2y+0} = \frac{dz}{-2p^2+y^2q} = \frac{dx}{-2p} = \frac{dy}{y^2}$$

From 1st and 4th ratio, we get,

$$\frac{dp}{2x} = \frac{dx}{-2p}$$

or, $p dp + x dx = 0$

or, $p^2 + x^2 = c_1$ (ii) [By integrating]

Now, solving (i) and (ii) we get, $c_1 - y^2 q - y^2 = 0$

or, $q = \frac{c_1 - y^2}{y^2} = \frac{c_1}{y^2} - 1$

and $p = \sqrt{c_1 - x^2}$

We know, $dz = \frac{\partial z}{\partial x} dx + \frac{\partial z}{\partial y} dy$

or, $dz = p dx + q dy$

or, $dz = \sqrt{c_1 - x^2} dx + \left(\frac{c_1}{y^2} - 1 \right) dy$

or, $\int dz = \int \sqrt{c_1 - x^2} dx + \int \left(\frac{c_1}{y^2} - 1 \right) dy$

or, $z = \frac{\sqrt{c_1 - x^2}}{2c_1} + \frac{c_1}{2} \sin^{-1} \left(\frac{x}{\sqrt{c_1}} \right) - \frac{c_1}{y} - y + k$ [By integrating]

which is the required complete integral/ Solution of (i).

Nonlinear Partial Differential Equations

W. F. Ames



Nonlinear Partial Differential Equations:

Nonlinear Partial Differential Equations of Second Order Guangchang Dong,1991 Addresses a class of equations central to many areas of mathematics and its applications This book addresses a general approach that consists of the following choose an appropriate function space define a family of mappings prove this family has a fixed point and study various properties of the solution *Nonlinear Partial Differential Equations* ,1980-01-01 Nonlinear Partial Differential Equations

Nonlinear partial differential equations in differential geometry Robert Hardt,1996 The lecture notes from a July 1992 minicourse in Park City Utah for graduate students and research mathematicians in differential geometry and partial differential equations They survey the current state of such aspects as the Moser Trudinger inequality and its applications to some problems in conformal geometry the effect of curvature on the behavior of harmonic functions and mapping and singularities of geometric variational problems No index Annotation copyright by Book News Inc Portland OR **Handbook of Nonlinear Partial Differential Equations, Second Edition** Andrei D. Polyanin,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 MapleTM 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 chaotic 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

Nonlinear Partial Differential Equations in Engineering W. F. Ames,1965-01-01 Nonlinear Partial Differential Equations in Engineering **Nonlinear Partial Differential Equations** W. F. Ames,2014-05-12 Nonlinear Partial Differential Equations A Symposium on Methods of Solution is a collection of papers presented at the seminar on methods of solution for nonlinear partial differential equations held at the University of Delaware Newark Delaware on December 27 29 1965 The sessions are divided into four Symposia Analytic Methods Approximate Methods Numerical Methods and Applications Separating 19 lectures into chapters this book starts with a presentation of the methods of similarity analysis

particularly considering the merits advantages and disadvantages of the methods The subsequent chapters describe the fundamental ideas behind the methods for the solution of partial differential equation derived from the theory of dynamic programming and from finite systems of ordinary differential equations These topics are followed by reviews of the principles to the lubrication approximation and compressible boundary layer flow computation The discussion then shifts to several applications of nonlinear partial differential equations including in electrical problems two phase flow hydrodynamics and heat transfer The remaining chapters cover other solution methods for partial differential equations such as the synergetic approach This book will prove useful to applied mathematicians physicists and engineers

Nonlinear Partial Differential Equations: Techniques And Recent Developments Prasanta Chatterjee, Kaushik Roy, Laxmikanta Mandi, 2025-08-28 This book charts a clear and systematic roadmap for nonlinear partial differential equations NLPDES Beginning from the definition of a partial differential equation to the recent developments of nonlinear partial differential equations this book will be a valuable resource for advanced postgraduate students and researchers in applied mathematics physics nonlinear optics and other engineering disciplines where knowledge of nonlinear differential equations is a must The book begins with an introductory chapter that briefly describes the developments of linear as well as nonlinear partial differential equations Several nonlinear partial differential equations that have emerged in various fields have also been discussed Chapter 2 introduces several analytical techniques including the traveling wave solutions and the similarity solutions of the nonlinear partial differential equations In Chapter 3 approximate analytical solutions and semi analytic solutions are presented in which solutions of non integrable or non autonomous nonlinear partial differential equations are investigated after suitable approximation Some recent breakthroughs in semi analytical approaches such as the Variational iteration method VIM Adomian decomposition method ADM Homotopy Analysis method HAM and Homotopy Perturbation method HPM are also explained with examples Chapter 4 deals with modern advancements in NLPDE Painlevé tests the Inverse Scattering Method the Lax Pair Method Darboux Transformation Bäcklund Transformation and the Hirota Direct Method The focus of this comprehensive monograph is to check the integrability and find analytical solutions for important NLPDEs according to recent developments

Nonlinear Partial Differential Equations and Their Applications, 1980
Nonlinear Partial Differential Equations, 1996 **Geometry of Jet Spaces and Nonlinear Partial Differential Equations** Iosif Semenovich Krasil'shchik, Valentin Vasil'evich Lychagin, Aleksandr Mikhaïlovich Vinogradov, 1986

Perspectives in Nonlinear Partial Differential Equations Henri Berestycki, 2007 In celebration of Haim Brezis's 60th birthday a conference was held at the Ecole Polytechnique in Paris with a program testifying to Brezis's wide ranging influence on nonlinear analysis and partial differential equations The articles in this volume are primarily from that conference They present a rare view of the state of the art of many aspects of nonlinear PDEs as well as describe new directions that are being opened up in this field The articles written by mathematicians at the center of current developments

provide somewhat more personal views of the important developments and challenges Nonlinear Partial Differential Equations in Applied Science H. Fujita, P.D. Lax, G. Strang, 2000-04-01 Nonlinear Partial Differential Equations in Applied Science **Nonlinear Partial Differential Equations** Helge Holden, Kenneth H. Karlsen, 2012-01-14 The topic of the 2010 Abel Symposium hosted at the Norwegian Academy of Science and Letters Oslo was Nonlinear Partial Differential Equations the study of which is of fundamental importance in mathematics and in almost all of natural sciences economics and engineering This area of mathematics is currently in the midst of an unprecedented development worldwide Differential equations are used to model phenomena of increasing complexity and in areas that have traditionally been outside the realm of mathematics New analytical tools and numerical methods are dramatically improving our understanding of nonlinear models Nonlinearity gives rise to novel effects reflected in the appearance of shock waves turbulence material defects etc and offers challenging mathematical problems On the other hand new mathematical developments provide new insight in many applications These proceedings present a selection of the latest exciting results by world leading researchers

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 *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

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

Nonlinear Partial Differential Equations and Free Boundaries: Elliptic equations J. I. Díaz, 1985 In this Research Note the author brings together the body of known work and presents many recent results relating to nonlinear partial differential equations that give rise to a free boundary usually the boundary of the set where the solution vanishes identically The formation of such a boundary depends on an adequate balance between two of the terms of the equation that represent the particular characteristics of the phenomenon under consideration diffusion absorption convection evolution etc These balances do not occur in the case of a linear equation or an arbitrary nonlinear equation Their characterization is studied for several classes of nonlinear equations relating to applications such as chemical reactions non Newtonian fluids

flow through porous media and biological populations In this first volume the free boundary for nonlinear elliptic equations is discussed A second volume dealing with parabolic and hyperbolic equations is in preparation Nonlinear Partial Differential Equations William F. Ames, 1965 **Nonlinear Partial Differential Equations for Scientists and Engineers** Lokenath Debnath, 2005 The book gives thorough coverage of the derivation and solution methods for all fundamental nonlinear model equations such as Korteweg de Vries Camassa Holm Degasperis Procesi Euler Poincare Toda lattice Boussinesq Burgers Fisher Whitham nonlinear Klein Gordon sine Gordon nonlinear Schrodinger nonlinear reaction diffusion and Euler Lagrange equations Page 4 of cover

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