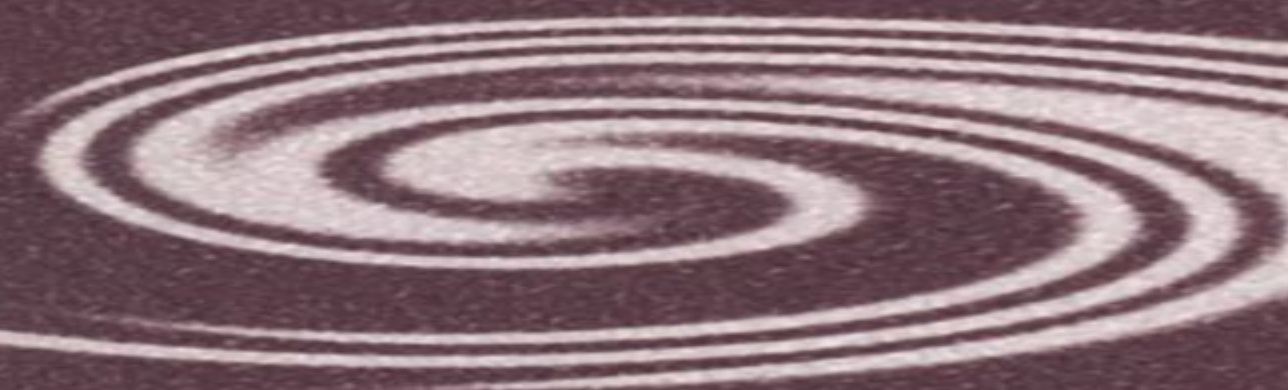
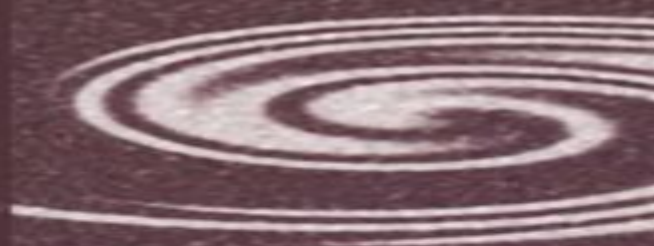


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Nonlinear Partial Differential Equations

for Scientists
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Nonlinear Partial Differential Equations For Scientists And Engineers

V. Lakshmikantham, S. Koksal



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Nonlinear Partial Differential Equations in Engineering Monotone Flows and Rapid Convergence for Nonlinear Partial Differential Equations V. Lakshmikantham,S. Koks al,2003-02-27 A monotone iterative technique is used to obtain monotone approximate solutions that converge to the solution of nonlinear problems of partial differential equations of elliptic parabolic and hyperbolic type This volume describes that technique which has played a valuable role in unifying a variety of nonlinear problems particularly when combin

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Handbook of Linear Partial Differential Equations for Engineers and Scientists Andrei D. Polyanin, 2001-11-28 Following in the footsteps of the authors bestselling Handbook of Integral Equations and Handbook of Exact Solutions for Ordinary Differential Equations this handbook presents brief formulations and exact solutions for more than 2 200 equations and problems in science and engineering Parabolic hyperbolic and elliptic equations with constant and variable coefficients New exact solutions to linear equations and boundary value problems Equations and problems of general form that depend on arbitrary functions Formulas for constructing solutions to nonhomogeneous boundary value problems Second and higher order equations and boundary value problems An introductory section outlines the basic definitions equations problems and methods of mathematical physics It also provides useful formulas for expressing solutions to boundary value problems of general form in terms of the Green s function Two supplements at the end of the book furnish more tools and information Supplement A lists the properties of

common special functions including the gamma Bessel degenerate hypergeometric and Mathieu functions and Supplement B describes the methods of generalized and functional separation of variables for nonlinear partial differential equations

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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 **Delay Ordinary and Partial Differential Equations** Andrei D. Polyanin,Vsevolod

G. Sorokin,Alexei I. Zhurov,2023-08-28 Delay Ordinary and Partial Differential Equations is devoted to linear and nonlinear ordinary and partial differential equations with constant and variable delay It considers qualitative features of delay differential equations and formulates typical problem statements Exact approximate analytical and numerical methods for solving such equations are described including the method of steps methods of integral transformations method of regular expansion in a small parameter method of matched asymptotic expansions iteration type methods Adomian decomposition method collocation method Galerkin type projection methods Euler and Runge Kutta methods shooting method method of lines finite difference methods for PDEs methods of generalized and functional separation of variables method of functional constraints method of generating equations and more The presentation of the theoretical material is accompanied by examples of the practical application of methods to obtain the desired solutions Exact solutions are constructed for many nonlinear delay reaction diffusion and wave type PDEs that depend on one or more arbitrary functions A review is given of

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