

Distributional Nonlinear Wave Equations Space-Time Algebra of Sedeons Nonautonomous Fractional Evolution Equations Partial Dynamic Equations Lie Group Analysis of Differential Equations Khaled Zennir Victor L. Mironov Yong Zhou Svetlin G. Georgiev Ranis Ibragimov Distributional Nonlinear Wave Equations Space-Time Algebra of Sedeons Nonautonomous Fractional Evolution Equations Partial Dynamic Equations Lie Group Analysis of Differential Equations *Khaled Zennir Victor L. Mironov Yong Zhou Svetlin G. Georgiev Ranis Ibragimov*

the book contains eleven chapters introduced by an introductory description qualitative properties for the semilinear dissipative wave equations are discussed in chapter 2 and chapter 3 based on the solutions with compactly supported initial data the purpose of chapter 4 is to present results according to the well posedness and behavior of solutions the nonlinear viscoelastic wave equations in weighted spaces elements of theory of kirchhoff problem is introduced in chapter 5 it is introduced same decay rate of second order evolution equations with density chapter 6 is devoted on the original method for well posedness and general decay for wave equation with logarithmic nonlinearities in chapter 7 it is investigated the uniform stabilization of the petrovsky wave nonlinear coupled system the question of well posedness and general energy decay of solutions for a system of three wave equations with a nonlinear strong dissipation are investigated in chapter 8 using the weighted insofar as chapter 9 and chapter 10 are concerned with damped nonlinear wave problems in fourier spaces the last chapter 11 analysis the existence nonexistence of solutions for structural damped wave equations with nonlinear memory terms in \mathbb{R}^n

this book is a comprehensive guide to the space time algebra of sixteen component values sedeons this algebra is designed to provide a compact representation of equations that describe various physical systems the book considers the symmetry of physical quantities concerning the operations of spatial and temporal inversion this approach allows the formulation of a wide class of mathematical physics equations within a unified framework and enables the generalization of these equations for essential problems in electrodynamics hydrodynamics plasma physics field theory and quantum mechanics in particular it is shown that the broken symmetry between electricity and magnetism in electrodynamics equations is a result of choosing an asymmetric representation of these phenomena the sedeonic algebra enables the formulation of maxwell like equations for the fields with a nonzero mass of quantum which facilitates the calculation of energy for baryon baryon interaction and the semi classical interpretation of this interaction it also allows one to generalize the hydrodynamics equations for the case of vortex turbulent flows and for a hydrodynamic two fluid model of electron ion plasma

fractional evolution equations describe various complex and nonlocal systems with memory

this volume investigates fractional evolution equations in infinite intervals the book covers a range of topics including the existence uniqueness attractivity and applications to fractional diffusion equations and fractional schrodinger equations researchers and graduate students in pure and applied mathematics will find this a useful reference

this book is devoted to the qualitative theory of partial dynamic equations on arbitrary time scales the results in the book generalize the classical results and they unify the discrete and continuous cases the book starts with classification and canonical forms for second order pdes next the laplace transform method and the fourier transform method are introduced the fourier transform is applied to solving second order pdes the method of separation of variables is considered later in the book the following few chapters are devoted to factoring second order pdes including the wave equation the heat equation and the laplace equation it proves the weak maximum principle and as its application is investigated the stability of the solutions of the poisson equation finally the reduction of some nonlinear pdes to the wave equation the heat equation and the laplace equation are discussed the main advantage of the book is that it offers a variety of analytical techniques for the study of partial dynamical equations and that the results obtained over arbitrary time scales can be used to derive results in the classical case and in the discrete case

the book is focused on physical interpretation and visualization of the obtained invariant solutions for nonlinear mathematical modeling of atmospheric and ocean waves this volume represents a unique blend of analytical and numerical methods complemented by the author s developments in ocean and atmospheric sciences and it is meant for researchers and graduate students interested in applied mathematics and mathematical modeling

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