Solution of Functional-Differential Equations by Splitting

First stage. We treat the functional-differential equation as a purely functional equation*

$$\Phi_1(X)\Psi_1(Y) + \Phi_2(X)\Psi_2(Y) + \cdots + \Phi_k(X)\Psi_k(Y) = 0$$

The case of even number of terms in the equation, $k = 2s$. A solution dependent on s^2 arbitrary constants C_{ij}:

$$\Phi_i(X) = C_{i1}\Phi_{s+1}(X) + C_{i2}\Phi_{s+2}(X) + \cdots + C_{is}\Phi_{2s}(X)$$
$$\Psi_{s+i}(Y) = -C_{1i}\Psi_1(Y) - C_{2i}\Psi_2(Y) - \cdots - C_{si}\Psi_s(Y), \qquad i = 1, \dots, s \tag{*}$$

There are also "degenerate" solutions dependent on fewer arbitrary constants.

Second stage. We substitute the functionals

$$\Phi_m(X) = \Phi_m(x, \varphi_1, \varphi_1', \varphi_1'', \dots, \varphi_n, \varphi_n', \varphi_n''), \quad \Psi_m(Y) = \Psi_m(y, \psi_1, \psi_1', \psi_1'', \dots, \psi_n, \psi_n', \psi_n'')$$

into solution (*) to obtain the system of ODEs for the unknowns $\varphi_p(x)$, $\psi_p(y)$.

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* It is *the standard bilinear functional equation* (the same for all problems).

Generalized Solutions Of Functional Differential Equations

Georgiĭ Aleksandrovich Kamenskiĭ

Generalized Solutions Of Functional Differential Equations:

    Generalized Solutions of Functional Differential Equations Joseph Wiener,1993 The need to investigate functional differential equations with discontinuous delays is addressed in this book Recording the work and findings of several scientists on differential equations with piecewise continuous arguments over the last few years this book serves as a useful source of reference Great interest is placed on discussing the stability oscillation and periodic properties of the solutions Considerable attention is also given to the study of initial and boundary value problems for partial differential equations of mathematical physics with discontinuous time delays In fact a large part of the book is devoted to the exploration of differential and functional differential equations in spaces of generalized functions distributions and contains a wealth of new information in this area Each topic discussed appears to provide ample opportunity for extending the known results A list of new research topics and open problems is also included as an update   **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 Differential Equations and Dynamical Systems* Feliz Manuel Minhós,João Fialho,2021-04-15 This Special Edition contains new results on Differential and Integral Equations and Systems covering higher order Initial and Boundary Value Problems fractional differential and integral equations and applications non local optimal control inverse and higher order nonlinear boundary

value problems distributional solutions in the form of a finite series of the Dirac delta function and its derivatives asymptotic properties oscillatory theory for neutral nonlinear differential equations the existence of extremal solutions via monotone iterative techniques predator prey interaction via fractional order models among others Our main goal is not only to show new trends in this field but also to showcase and provide new methods and techniques that can lead to future research

Functional Differential Equations A.V. Kim,2013-04-17 Beginning with the works of N N Krasovskii 81 82 83 which clari fied the functional nature of systems with delays the functional approach provides a foundation for a complete theory of differential equations with delays Based on the functional approach different aspects of time delay system theory have been developed with almost the same completeness as the corresponding field of ODE ordinary differential equations the ory The term functional differential equations FDE is used as a syn onym for systems with delays 1 The systematic presentation of these re sults and further references can be found in a number of excellent books 2 15 22 32 34 38 41 45 50 52 77 78 81 93 102 128 In this monograph we present basic facts of i smooth calculus a new differential calculus of nonlinear functionals based on the notion of the invariant derivative and some of its applications to the qualitative theory of functional differential equations Utilization of the new calculus is the main distinction of this book from other books devoted to FDE theory Two other distinguishing features of the volume are the following the central concept that we use is the separation of finite dimensional and infinite dimensional components in the structures of FDE and functionals we use the conditional representation of functional differential equa tions which is convenient for application of methods and constructions of i smooth calculus to FDE theory **Elliptic Functional Differential Equations and Applications** Alexander L. Skubachevskii,2012-12-06 Boundary value problems for elliptic differential difference equations have some astonishing properties For example unlike elliptic differential equations the smoothness of the generalized solutions can be broken in a bounded domain and is preserved only in some subdomains The symbol of a self adjoint semibounded functional differential operator can change its sign The purpose of this book is to present for the first time general results concerning solvability and spectrum of these problems a priori estimates and smoothness of solutions The approach is based on the properties of elliptic operators and difference operators in Sobolev spaces The most important features distinguishing this work are applications to different fields of science The methods in this book are used to obtain new results regarding the solvability of nonlocal elliptic boundary value problems and the existence of Feller semigroups for multidimensional diffusion processes Moreover applications to control theory and aircraft and rocket technology are given The theory is illustrated with numerous figures and examples The book is addresssed to graduate students and researchers in partial differential equations and functional differential equations It will also be of use to engineers in control theory and elasticity theory Hyperbolic Functional Differential Inequalities and Applications Z. Kamont,2012-12-06 This book is intended as a self contained exposition of hyperbolic functional dif ferential inequalities and their applications Its aim is to give a systematic and unified

presentation of recent developments of the following problems i functional differential inequalities generated by initial and mixed problems ii existence theory of local and global solutions iii functional integral equations generated by hyperbolic equations iv numerical method of lines for hyperbolic problems v difference methods for initial and initial boundary value problems Beside classical solutions the following classes of weak solutions are treated Ca ratheodory solutions for quasilinear equations entropy solutions and viscosity so lutions for nonlinear problems and solutions in the Friedrichs sense for almost linear equations The theory of difference and differential difference equations ge nerated by original problems is discussed and its applications to the constructions of numerical methods for functional differential problems are presented The monograph is intended for different groups of scientists Pure mathemati cians and graduate students will find an advanced theory of functional differential problems Applied mathematicians and research engineers will find numerical al gorithms for many hyperbolic problems The classical theory of partial differential inequalities has been described exten sively in the monographs 138 140 195 225 As is well known they found applica tions in differential problems The basic examples of such questions are estimates of solutions of partial equations estimates of the domain of the existence of solu tions criteria of uniqueness and estimates of the error of approximate solutions   Introduction to the Theory of Functional Differential Equations: Methods and Applications Nikolaj Viktorovič Azbelev,L. Rakhmatullina,2007   *Generalized Ordinary Differential Equations in Abstract Spaces and Applications* Everaldo M. Bonotto,Márcia Federson,Jaqueline G. Mesquita,2021-08-26 GENERALIZED ORDINARY DIFFERENTIAL EQUATIONS IN ABSTRACT SPACES AND APPLICATIONS Explore a unified view of differential equations through the use of the generalized ODE from leading academics in mathematics Generalized Ordinary Differential Equations in Abstract Spaces and Applications delivers a comprehensive treatment of new results of the theory of Generalized ODEs in abstract spaces The book covers applications to other types of differential equations including Measure Functional Differential Equations measure FDEs It presents a uniform collection of qualitative results of Generalized ODEs and offers readers an introduction to several theories including ordinary differential equations impulsive differential equations functional differential equations dynamical equations on time scales and more Throughout the book the focus is on qualitative theory and on corresponding results for other types of differential equations as well as the connection between Generalized Ordinary Differential Equations and impulsive differential equations functional differential equations measure differential equations and dynamic equations on time scales The book s descriptions will be of use in many mathematical contexts as well as in the social and natural sciences Readers will also benefit from the inclusion of A thorough introduction to regulated functions including their basic properties equiregulated sets uniform convergence and relatively compact sets An exploration of the Kurzweil integral including its definitions and basic properties A discussion of measure functional differential equations including impulsive measure FDEs The interrelationship between generalized ODEs and measure FDEs A treatment of the basic properties of generalized ODEs including the existence and uniqueness of solutions

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Applied Theory of Functional Differential Equations V. Kolmanovskii,A. Myshkis,2012-12-06 This volume provides an introduction to the properties of functional differential equations and their applications in diverse fields such as immunology nuclear power generation heat transfer signal processing medicine and economics In particular it deals with problems and methods relating to systems having a memory hereditary systems The book contains eight chapters Chapter 1 explains where functional differential equations come from and what sort of problems arise in applications Chapter 2 gives a broad introduction to the basic principle involved and deals with systems having discrete and distributed delay Chapters 3 5 are devoted to stability problems for retarded neutral and stochastic functional differential equations Problems of optimal control and estimation are considered in Chapters 6 8 For applied mathematicians engineers and physicists whose work involves mathematical modeling of hereditary systems This volume can also be recommended as a supplementary text for graduate students who wish to become better acquainted with the properties and applications of functional differential equations   **Differential Equations with Involutions** Alberto Cabada,F. Adrián F. Tojo,2016-01-06 This monograph covers the existing results regarding Green s functions for differential equations with involutions DEI The first part of the book is devoted to the study of the most useful aspects of involutions from an analytical point of view and the associated algebras of differential operators The work combines the state of the art regarding the existence and uniqueness results for DEI and new theorems describing how to obtain Green s functions proving that the theory can be extended to operators not necessarily involutions of a similar nature such as the Hilbert transform or projections due to their analogous algebraic properties Obtaining a Green s function for these operators leads to new results on the qualitative properties of the solutions in particular maximum and antimaximum principles   Extrema of Nonlocal Functionals and Boundary Value Problems for Functional Differential Equations Georgiĭ Aleksandrovich Kamenskiĭ,2007 The non local functional is an integral with the integrand depending on the unknown function at different values of the argument These types of functionals have different applications in physics engineering and sciences The Euler type equations that arise as necessary conditions of extrema of non local functionals are the functional differential equations The book is dedicated to systematic study of variational calculus for non local functionals and to theory of boundary value problems for functional differential equations There are described different necessary and some sufficient conditions for extrema of non local functionals Theorems of existence and uniqueness of solutions to many kinds of boundary value problems for functional differential equations are proved The spaces of solutions to these problems are as a rule Sobolev spaces and it is not often possible to apply the analytical methods for solution of these problems Therefore it is important to have approximate methods for their solution Different approximate

methods of solution of boundary value problems for functional differential equations and direct methods of variational calculus for non local functionals are described in the book The non local functional is an integral with the integrand depending on the unknown function at different values of the argument These types of functionals have different applications in physics engineering and sciences The Euler type equations that arise as necessary conditions of extrema of non local functionals are the functional differential equations The book is dedicated to systematic study of variational calculus for non local functionals and to theory of boundary value problems for functional differential equations There are described different necessary and some sufficient conditions for extrema of non local functionals Theorems of existence and uniqueness of solutions to many kinds of boundary value problems for functional differential equations are proved The spaces of solutions to these problems are as a rule Sobolev spaces and it is not often possible to apply the analytical methods for solution of these problems Therefore it is important to have approximate methods for their solution Different approximate methods of solution of boundary value problems for functional differential equations and direct methods of variational calculus for non local functionals are described in the book **Theory and Applications of Nonlinear Operators of Accretive and Monotone Type** Athanass Kartsatos,1996-03-14 This work is based upon a Special Session on the Theory and Applications of Nonlinear Operators of Accretive and Monotone Type held during the recent meeting of the American Mathematical Society in San Francisco It examines current developments in non linear analysis emphasizing accretive and monotone operator theory The book presents a major survey research article on partial functional differential equations with delay and an important survey research article on approximation solvability *Generalized Solutions to Functional Partial Differential Equations of the First Order* Jan Turo,1988 **Functional Differential Equations** Tarō Yoshizawa,1991 **Generalized Functions Theory and Technique** Ram P. Kanwal,2012-12-06 This second edition of Generalized Functions has been strengthened in many ways The already extensive set of examples has been expanded Since the publication of the first edition there has been tremendous growth in the subject and I have attempted to incorporate some of these new concepts Accordingly almost all the chapters have been revised The bibliography has been enlarged considerably Some of the material has been reorganized For example Chapters 12 and 13 of the first edition have been consolidated into Chapter 12 of this edition by a judicious process of elimination and addition of the subject matter The new Chapter 13 explains the interplay between the theories of moments asymptotics and singular perturbations Similarly some sections of Chapter 15 have been revised and included in earlier chapters to improve the logical flow of ideas However two sections are retained The section dealing with the application of the probability theory has been revised and I am thankful to Professor Z L Crvenkovic for her help The new material included in this chapter pertains to the modern topics of periodic distributions and microlocal theory I have demonstrated through various examples that familiarity with the generalized functions is very helpful for students in physical sciences and technology For instance the reader will realize from Chapter 6 how the generalized functions have

revolutionized the Fourier analysis which is being used extensively in many fields of scientific activity **World Congress of Nonlinear Analysts '92** V. Lakshmikantham,2011-11-14 No detailed description available for World Congress of Nonlinear Analysts 92 **Smart Applications with Advanced Machine Learning and Human-Centred Problem Design** D. Jude Hemanth,Utku Kose,Junzo Watada,Bogdan Patrut,2023-01-01 This book brings together the most recent quality research papers accepted and presented in the 3rd International Conference on Artificial Intelligence and Applied Mathematics in Engineering ICAIAME 2021 held in Antalya Turkey between 1 3 October 2021 Objective of the content is to provide important and innovative research for developments improvements within different engineering fields which are highly interested in using artificial intelligence and applied mathematics As a collection of the outputs from the ICAIAME 2021 the book is specifically considering research outcomes including advanced use of machine learning and careful problem designs on human centred aspects In this context it aims to provide recent applications for real world improvements making life easier and more sustainable for especially humans The book targets the researchers degree students and practitioners from both academia and the industry **Recent Developments in Evolution Equations** G F Roach,A C Mcbride,1995-04-28 This book presents the majority of talks given at an International Converence held recently at the University of Strathclyde in Glasgow The works presented focus on the analysis of mathematical models of systems evolving with time The main topics are semigroups and related subjects connected with applications to partial differential equations of evolution type Topics of particular interest include spectral and asymptotic properties of semigroups B evolution scattering theory and coagulation fragmentation phenomena **Introduction to the Theory and Applications of Functional Differential Equations** V. Kolmanovskii,A. Myshkis,2013-04-18 This book covers the most important issues in the theory of functional differential equations and their applications for both deterministic and stochastic cases Among the subjects treated are qualitative theory stability periodic solutions optimal control and estimation the theory of linear equations and basic principles of mathematical modelling The work which treats many concrete problems in detail gives a good overview of the entire field and will serve as a stimulating guide to further research Audience This volume will be of interest to researchers and post graduate students working in analysis and in functional analysis in particular It will also appeal to mathematical engineers industrial mathematicians mathematical system theoreticians and mathematical modellers **Functional Differential Equations - Proceedings Of The International Symposium** T Yoshizawa,J Kato,1991-04-30 Privacy is an unwieldy concept that has eluded an essentialised definition despite its centrality and importance in the body of bioethics The compilation presented in this volume represents continuing discussions on the theme of privacy in the context of genetic information It is intended to present a wide range of expert opinion in which the notion of privacy is examined from many perspectives in different contexts and imperatives and in different societies with the hope of advancing an understanding of privacy through the examination and critique of some of its evolving component concepts such as notions of what constitute the personal the

context of privacy the significance and impact of the relational interests of others who may share the same genetic inheritance and mechanisms for the protection of privacy as well as of their limitations among others More specifically the discussions in this volume encourages us to think broadly about privacy as encompassing values that are entailed in the sociality of context and of relations and also as freedom from illegitimate and excessive surveillance A long standing question that continues to challenge us is whether genetic information should be regarded as exceptional as it is often perceived A conclusion that could be derived from this volume is that while genetic information may be significant it is not exceptionally so The work presented in this volume underlines the continuing and growing relevance of notions of privacy to genomic science and the need to take ownership of a genetic privacy for the future through broad rigorous and open discussion Contributors Alastair V Campbell Benjamin Capps Jacqueline JL Chin Oi Lian Kon Kenji Matsui Thomas H Murray Nazirudin Mohd Nasir Dianne Nicol Anh Tuan Nuyen Onora O Neill Margaret Otlowski Yvette van der Eijk Chunshui Wang Ross S White

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