

Abdul-Majid Wazwaz

Linear and Nonlinear Integral Equations

Methods and Applications

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Camilla Rothe



Linear And Nonlinear Integral Equations Methods And Applications:

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principle upper and lower solutions techniques Newton's method and the generalized quasilinearization method Many important applications for several classes of integral equations and in particular for initial and boundary value problems are presented to complement the theory Special attention is paid to the existence and localization of solutions in bounded domains such as balls and order intervals The presentation is essentially self contained and leads the reader from classical concepts to current ideas and methods of nonlinear analysis

Advances in Fuzzy Integral and Differential Equations Tofigh Allahviranloo, Soheil Salahshour, 2021-07-25 As the title of the book suggests the topics of this book are organized into two parts The first part points out the fuzzy differential equations and the second one is related to the fuzzy integral equations The book contains nine chapters that six chapters are about fuzzy differential equations and three of them are about fuzzy integral equations In each part the chapters authors are going to discuss the topics theoretically and numerically All researchers and students in the field of mathematical computer and also engineering sciences can benefit from the subjects of the book

A First Course in Integral Equations Abdul-Majid Wazwaz, 1997 This book presents the subject of integral equations in an accessible manner for a variety of applications Emphasis is placed on understanding the subject while avoiding the abstract and compact theorems A distinctive feature of the book is that it introduces the recent powerful and reliable developments in this field which are not covered in traditional texts The newly developed decomposition method the series solution method and the direct computation method are thoroughly implemented which allows the topic to be far more accessible The book also includes some of the traditional techniques for comparison Using the newly developed methods the author successfully handles Fredholm and Volterra integral equations singular integral equations integro differential equations and nonlinear integral equations with promising results for linear and nonlinear models Many examples are given to introduce the material in a clear and thorough fashion In addition many exercises are provided to build confidence ease and skill in using the new methods This book may be used as a text for advanced undergraduates and graduate students in mathematics and scientific areas and as a work of reference for research study of differential equations and numerical analysis

Multiscale Methods for Fredholm Integral Equations Zhongying Chen, Charles A. Micchelli, Yuesheng Xu, 2015-07-16 The recent appearance of wavelets as a new computational tool in applied mathematics has given a new impetus to the field of numerical analysis of Fredholm integral equations This book gives an account of the state of the art in the study of fast multiscale methods for solving these equations based on wavelets The authors begin by introducing essential concepts and describing conventional numerical methods They then develop fast algorithms and apply these to solving linear nonlinear Fredholm integral equations of the second kind ill posed integral equations of the first kind and eigen problems of compact integral operators Theorems of functional analysis used throughout the book are summarised in the appendix The book is an essential reference for practitioners wishing to use the new techniques It may also be used as a text with the first five chapters forming the basis of a one semester course for advanced undergraduates or beginning graduates

The

Journal of Integral Equations and Applications ,1988 **First Course In Integral Equations, A (Second Edition)**

Abdul-majid Wazwaz,2015-05-04 This second edition integrates the newly developed methods with classical techniques to give both modern and powerful approaches for solving integral equations It provides a comprehensive treatment of linear and nonlinear Fredholm and Volterra integral equations of the first and second kinds The materials are presented in an accessible and straightforward manner to readers particularly those from non mathematics backgrounds Numerous well explained applications and examples as well as practical exercises are presented to guide readers through the text Selected applications from mathematics science and engineering are investigated by using the newly developed methods This volume consists of nine chapters pedagogically organized with six chapters devoted to linear integral equations two chapters on nonlinear integral equations and the last chapter on applications It is intended for scholars and researchers and can be used for advanced undergraduate and graduate students in applied mathematics science and engineering Click here for solutions manual

Scientific and Technical Aerospace Reports ,1969 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Novel Methods for Solving Linear and Nonlinear Integral Equations Santanu Saha Ray,Prakash Kumar Sahu,2018-12-07 This book deals with the numerical solution of integral equations based on approximation of functions and the authors apply wavelet approximation to the unknown function of integral equations The book s goal is to categorize the selected methods and assess their accuracy and efficiency

Applied Mechanics Reviews ,1972 International Aerospace Abstracts ,1986 **Nonlinear Integral Equations** Philip M. Anselone,1964

Superlinear Parabolic Problems Prof. Dr. Pavol Quittner,Prof. Dr. Philippe Souplet,2019-06-13 This book is devoted to the qualitative study of solutions of superlinear elliptic and parabolic partial differential equations and systems This class of problems contains in particular a number of reaction diffusion systems which arise in various mathematical models especially in chemistry physics and biology The first two chapters introduce to the field and enable the reader to get acquainted with the main ideas by studying simple model problems respectively of elliptic and parabolic type The subsequent three chapters are devoted to problems with more complex structure namely elliptic and parabolic systems equations with gradient depending nonlinearities and nonlocal equations They include many developments which reflect several aspects of current research Although the techniques introduced in the first two chapters provide efficient tools to attack some aspects of these problems they often display new phenomena and specifically different behaviors whose study requires new ideas Many open problems are mentioned and commented The book is self contained and up to date it has a high didactic quality It is devoted to problems that are intensively studied but have not been treated so far in depth in the book literature The intended audience includes graduate and postgraduate students and researchers working in the field of partial differential equations and applied mathematics The first edition of this book has become one of the standard references in the field This second

edition provides a revised text and contains a number of updates reflecting significant recent advances that have appeared in this growing field since the first edition

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