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covers odes and pdes in one textbook until now a comprehensive textbook covering both ordinary differential equations odes and partial differential equations pdes didn't exist fulfilling this need ordinary and partial differential equations provides a complete and accessible course on odes and pdes using many examples and exercises as well as intuitive easy to use software teaches the key topics in differential equations the text includes all the topics that form the core of a modern undergraduate or beginning graduate course in differential equations it also discusses other optional but important topics such as integral equations fourier series and special functions numerous carefully chosen examples offer practical guidance on the concepts and techniques guides students through the problem solving process requiring no user programming the accompanying computer software allows students to fully investigate problems thus enabling a deeper study into the role of boundary and initial conditions the dependence of the solution on the parameters the accuracy of the solution the speed of a series convergence and related questions the ode module compares students analytical solutions to the results of computations while the pde module demonstrates the sequence of all necessary analytical solution steps

this well acclaimed book now in its twentieth edition continues to offer an in depth presentation of the fundamental concepts and their applications of ordinary and partial differential equations providing systematic solution techniques the book provides step by step proofs of theorems to enhance students problem solving skill and includes plenty of carefully chosen solved examples to illustrate the concepts discussed

this book introduces finite difference methods for both ordinary differential equations odes and partial differential equations pdes and discusses the similarities and differences between algorithm design and stability analysis for different types of equations a unified view of stability theory for odes and pdes is presented and the interplay between ode and pde analysis is stressed the text emphasizes standard classical methods but several newer approaches also are introduced and are described in the context of simple motivating examples

this book is an introduction to partial differential equations pdes and the relevant functional

analysis tools which they require it is based on a course which has been taught at michigan state university for a number of years the purpose of the course and of the book is to give students a rapid and solid research oriented foundation in areas of pdes such as semilinear parabolic equations that include studies of the stability of fluid flows and more generally of the dynamics generated by dissipative systems numerical pdes elliptic and hyperbolic pdes and quantum mechanics

this revised and updated text now in its second edition continues to present the theoretical concepts of methods of solutions of ordinary and partial differential equations it equips students with the various tools and techniques to model different physical problems using such equations the book discusses the basic concepts of ordinary and partial differential equations it contains different methods of solving ordinary differential equations of first order and higher degree it gives the solution methodology for linear differential equations with constant and variable coefficients and linear differential equations of second order the text elaborates simultaneous linear differential equations total differential equations and partial differential equations along with the series solution of second order linear differential equations it also covers bessel s and legendre s equations and functions and the laplace transform finally the book revisits partial differential equations to solve the laplace equation wave equation and diffusion equation and discusses the methods to solve partial differential equations using the fourier transform a large number of solved examples as well as exercises at the end of chapters help the students comprehend and strengthen the underlying concepts the book is intended for undergraduate and postgraduate students of mathematics b a b sc m a m sc and undergraduate students of all branches of engineering b e b tech as part of their course in engineering mathematics new to the second edition includes new sections and subsections such as applications of differential equations special substitution lagrange and riccati solutions of non linear equations which are exact method of variation of parameters for linear equations of order higher than two and method of undetermined coefficients incorporates several worked out examples and exercises with their answers contains a new chapter 19 on z transforms and its applications

the statement which expresses the equality of two expressions is known as an equation a differential equation is a kind of mathematical equation that shows the connection between a function and its derivatives functions represent the physical quantities and derivatives show their rates of change the differential equation seeks to define the relationship between the two it can

be classified into various types such as ordinary differential equations and partial differential equations ordinary differential equation contains one or more than one function of an independent variable it is related to the derivatives of these functions partial differential equations contain unknown multi variable functions as well as their partial derivatives these are generally used to formulate problems which contain functions of several variables the topics included in this book on ordinary and partial differential equations are of utmost significance and bound to provide incredible insights to readers it presents researches and studies performed by experts across the globe this book is appropriate for students seeking detailed information in this area as well as for experts

practical text shows how to formulate and solve partial differential equations coverage includes diffusion type problems hyperbolic type problems elliptic type problems and numerical and approximate methods solution guide available upon request 1982 edition

the book is designed for undergraduate or beginning level graduate students and students from interdisciplinary areas including engineers and others who need to use partial differential equations fourier series fourier and laplace transforms the prerequisite is a basic knowledge of calculus linear algebra and ordinary differential equations the textbook aims to be practical elementary and reasonably rigorous the book is concise in that it describes fundamental solution techniques for first order second order linear partial differential equations for general solutions fundamental solutions solution to cauchy initial value problems and boundary value problems for different pdes in one and two dimensions and different coordinates systems analytic solutions to boundary value problems are based on sturm liouville eigenvalue problems and series solutions the book is accompanied with enough well tested maple files and some matlab codes that are available online the use of maple makes the complicated series solution simple interactive and visible these features distinguish the book from other textbooks available in the related area

this book has been designed for undergraduate honours and postgraduate students of various indian universities a set of objective problems has been provided at the end of each chapter which will be useful to the aspirants of competitive examinations

the self contained treatment covers fourier series orthogonal systems fourier and laplace transforms bessel functions and partial differential equations of the first and second orders 266 exercises with solutions 1970 edition

uniquely provides fully solved problems for linear partial differential equations and boundary value problems partial differential equations theory and completely solved problems utilizes real world physical models alongside essential theoretical concepts with extensive examples the book guides readers through the use of partial differential equations pdes for successfully solving and modeling phenomena in engineering biology and the applied sciences the book focuses exclusively on linear pdes and how they can be solved using the separation of variables technique the authors begin by describing functions and their partial derivatives while also defining the concepts of elliptic parabolic and hyperbolic pdes following an introduction to basic theory subsequent chapters explore key topics including classification of second order linear pdes derivation of heat wave and laplace s equations fourier series separation of variables sturm liouville theory fourier transforms each chapter concludes with summaries that outline key concepts readers are provided the opportunity to test their comprehension of the presented material through numerous problems ranked by their level of complexity and a related website features supplemental data and resources extensively class tested to ensure an accessible presentation partial differential equations is an excellent book for engineering mathematics and applied science courses on the topic at the upper undergraduate and graduate levels

this text explores the essentials of partial differential equations as applied to engineering and the physical sciences discusses ordinary differential equations integral curves and surfaces of vector fields the cauchy kovalevsky theory more problems and answers

this book provides a basic introductory course in partial differential equations in which theory and applications are interrelated and developed side by side emphasis is on proofs which are not only mathematically rigorous but also constructive where the structure and properties of the solution are investigated in detail the authors feel that it is no longer necessary to follow the tradition of introducing the subject by deriving various partial differential equations of continuum mechanics and theoretical physics therefore the subject has been introduced by mathematical analysis of the simplest yet one of the most useful from the point of view of applications class of partial differential equations namely the equations of first order for which existence uniqueness and stability of the solution of the relevant problem cauchy problem is easy to discuss throughout the book attempt has been made to introduce the important ideas from relatively simple cases some times by referring to physical processes and then extending them to more general systems

in this undergraduate graduate textbook the authors introduce odes and pdes through 50 class

tested lectures mathematical concepts are explained with clarity and rigor using fully worked out examples and helpful illustrations exercises are provided at the end of each chapter for practice the treatment of odes is developed in conjunction with pdes and is aimed mainly towards applications the book covers important applications oriented topics such as solutions of odes in form of power series special functions bessel functions hypergeometric functions orthogonal functions and polynomials legendre chebyshev hermite and laguerre polynomials theory of fourier series undergraduate and graduate students in mathematics physics and engineering will benefit from this book the book assumes familiarity with calculus

a course in ordinary and partial differential equations discusses ordinary differential equations and partial differential equations the book reviews the solution of elementary first order differential equations existence theorems singular solutions and linear equations of arbitrary order it explains the solutions of linear equations with constant coefficients operational calculus and the solutions of linear differential equations it also explores the techniques of computing for the solution of systems of linear differential equations which is similar to the solutions of linear equations of arbitrary order the text proves that if the coefficients of some differential equations possess certain restricted types of singularities the solution will have taylor series expansions about the singular points the investigator can calculate a divergent series whose partial sums numerically approximate the solution for large x if the point in question is infinity of which the series will be a taylor series of negative powers of x the book also explains the fourier transform its applications to partial differential equations as well as the hilbert space approach to partial differential equations the book is a stimulating material for mathematicians for professors or for students of pure and applied mathematics physics or engineering

a unified and accessible introduction to the basic theory of finite difference schemes

the aim of this book is to provide a comprehensive introduction to the theory of distributions by the use of solved problems although written for mathematicians it can also be used by a wider audience including engineers and physicists the first six chapters deal with the classical theory with special emphasis on the concrete aspects the reader will find many examples of distributions and learn how to work with them at the beginning of each chapter the relevant theoretical material is briefly recalled the last chapter is a short introduction to a very wide and important field in analysis which can be considered as the most natural application of distributions namely the theory of partial differential equations it includes exercises on the classical differential

operators and on fundamental solutions hypoellipticity analytic hypoellipticity sobolev spaces local solvability the cauchy problem etc

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