Differential Equations

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dieses lehrbuch führt in das gebiet der differentialgleichungen und der mathematischen modellbildung ein dabei werden etablierte und moderne rechenmethoden besprochen und es wird erläutert wie diese zur mathematischen modellierung benutzt werden können lie gruppen und deren einsatz zur lösung von differentialgleichungen spielen dabei eine tragende rolle es werden gewöhnliche und partielle differentialgleichungen verschiedener ordnung behandelt aus denen individuell beispiele ausgewählt werden können in seinem modularen und einfach zu folgenden aufbau ist dieses buch ideal für studenten und wissenschaftler die mit mathematischen modellen umgehen müssen inhalt ausgewählte kapitel der analysis mathematische modelle gewöhnliche differentialgleichungen traditionelle lösungsmethoden partielle differentialgleichungen erster ordnung lineare partielle differentialgleichungen zweiter ordnung nichtlineare gewöhnliche differentialgleichungen nichtlineare partielle differentialgleichungen verallgemeinerte funktionen oder distributionen invarianzprinzip und fundamentallösung

this book focuses the solutions of differential equations with matlab analytical solutions of differential equations are explored first followed by the numerical solutions of different types of ordinary differential equations odes as well as the universal block diagram based schemes for odes boundary value odes fractional order odes and partial differential equations are also discussed

die dritte auflage des bewährten lehrbuchs bietet vollständig überarbeitet und aktualisiert eine fundierte und zugängliche einführung in die differentialgeometrie von kurven und flächen beginnend mit klassischer euklidischer geometrie deckt das lehrbuch wichtige themen wie kurven und flächentheorie die zentrale bedeutung der krümmung sowie analytische und topologische aspekte ab auch minimalflächen hyperbolische geometrie anwendungen in der kartografie und der satz von gauß bonnet werden behandelt die mathematische darstellung ist so gewählt dass sich das buch als einstieg in die abstrakte riemannsche geometrie eignet eine der wichtigsten erweiterungen in dieser auflage ist die verbesserte darstellung der konstruktion von triangulierungen durch illustrationen und verständlichere erklärungen wird nun ein noch tieferes und intuitiveres verständnis der materie ermöglicht zu jedem kapitel finden sich sorgfältig ausgewählte Übungsaufgaben die das gelernte vertiefen und anwenden lassen die meisten aufgaben sind mit ausführlichen lösungshinweisen versehen die helfen die konzepte selbstständig zu meistern und das wissen zu festigen

the book consists of eight chapters each focusing on different aspects of multiple integrals and related topics in mathematical analysis in chapter 1 multiple integrals are defined and developed the jordan measure in n dimensional unit balls is introduced along with the definition and criteria for multiple integrals as well as their properties chapter 2 delves into advanced techniques for computing multiple integrals it introduces the taylor formula discusses linear maps on measurable sets and explores the metric properties of differentiable maps in chapter 3 we focus on improper multiple integrals and their

properties the chapter deduces criteria for the integrability of functions of several variables and develops concepts such as improper integrals of nonnegative functions comparison criteria and absolute convergence chapter 4 investigates the stieltjes integral and its properties topics covered include the differentiation of monotone functions of finite variation and the helly principle of choice as well as continuous functions of finite variation chapter 5 addresses curvilinear integrals defining line integrals of both the first and second kinds it also discusses the independence of line integrals from the path of integration in chapter 6 surface integrals of the first and second kinds are introduced the chapter presents the gauss ostrogradsky theorem and stokes formulas along with advanced practical problems to practice these concepts

this book delves into the recent findings and research methods in the existence and regularity theory for non newtonian fluids with variable power law the aim of this book is not only to introduce recent results and research methods in the existence and regularity theory such as higher integrability higher differentiability and holder continuity for flows of non newtonian fluids with variable power laws but also to summarize much of the existing literature concerning these topics while this book mainly focuses on steady state flows of non newtonian fluids the methods and ideas presented in this book can be applied to unsteady flows as discussed in chapter 7 and other related problems such as complex non newtonian fluids plasticity elasticity p x laplacian type systems and so on the book is intended for researchers and graduate students in the field of mathematical fluid mechanics and partial differential equations with variable exponents it is expected to contribute to the advancement of mathematics and its applications

nonlinear evolution equations are widely used to describe nonlinear phenomena in natural and social sciences however they are usually quite difficult to solve in most instances this book introduces the finite difference methods for solving nonlinear evolution equations the main numerical analysis tool is the energy method this book covers the difference methods for the initial boundary value problems of twelve nonlinear partial differential equations they are fisher equation burgers equation regularized long wave equation korteweg de vries equation camassa holm equation schrödinger equation kuramoto tsuzuki equation zakharov equation ginzburg landau equation cahn hilliard equation epitaxial growth model and phase field crystal model this book is a monograph for the graduate students and science researchers majoring in computational mathematics and applied mathematics it will be also useful to all researchers in related disciplines

this two volume monograph is a comprehensive and up to date presentation of the theory and applications of kinetic equations the second volume covers discrete velocity

models of the boltzmann equation results on the landau equation and numerical deterministic and stochastic methods for the solution of kinetic equations

strongly coupled or cross diffusion systems of parabolic and elliptic partial differential equations appear in many physical applications this book presents a new approach to the solvability of general strongly coupled systems a much more difficult problem in contrast to the scalar case by unifying elucidating and extending breakthrough results obtained by the author and providing solutions to many open fundamental questions in the theory several examples in mathematical biology and ecology are also included contents interpolation gagliardo nirenberg inequalities the parabolic systems the elliptic systems cross diffusion systems of porous media type nontrivial steady state solutions the duality rbmo $\boxed{1}$ h1 $\boxed{2}$ some algebraic inequalities partial regularity

concentration compactness methods are applied to pde s that lack compactness properties typically due to the scaling invariance of the underlying problem this monograph presents a systematic functional analytic presentation of concentration mechanisms and is by far the most extensive and systematic collection of mathematical tools for analyzing the convergence of functional sequences via the mechanism of concentration

learn the best strategies for solving tough problems in step by step detail slash your homework time with these examples get ready for exams with test type problems great index helps you quickly locate the type of problem you need to solve

for courses in differential equations and linear algebra acclaimed authors edwards and penney combine core topics in elementary differential equations with those concepts and methods of elementary linear algebra needed for a contemporary combined introduction to differential equations and linear algebra known for its real world applications and its blend of algebraic and geometric approaches this text discusses mathematical modeling of real world phenomena with a fresh new computational and qualitative flavor evident throughout in figures examples problems and applications in the 3rd edition new graphics and narrative have been added as needed yet the proven chapter and section structure remains unchanged so that class notes and syllabi will not require revision for the new edition the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you will receive via email the code and instructions on how to access this product time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

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primarily intended for the undergraduate students of mathematics physics and engineering this text gives in depth coverage of differential equations and the methods for solving them the book begins with the definitions the physical and geometric origins of differential equations and the methods for solving the first order differential equations then it goes on to give the applications of these equations to such areas as biology medical sciences electrical engineering and economics the text also discusses systematically and logically higher order differential equations and their applications to telecommunications civil engineering cardiology and detection of diabetes as also the methods of solving simultaneous differential equations and their applications besides the book provides a detailed discussion on laplace transforms and their applications partial differential equations and their applications to vibration of stretched string heat flow transmission lines etc and calculus of variations and its applications the book which is a happy fusion of theory and application would also be useful to postgraduate students new to this edition new sections on a equations reducible to linear partial differential equations b general method for solving the second order non linear partial differential equations monge s method c lagrange s equations of motion number of solved examples in chapters 5 7 8 9 and 10

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