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KEY=DIFFERENTIAL - ERIN JAMIYA

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

S. Chand Publishing 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

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS, 20TH EDITION

S. Chand Publishing 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.

ADVANCED DIFFERENTIAL EQUATIONS

S. Chand Publishing This book is especially prepared for B.A., B.Sc. and honours (Mathematics and Physics), M.A/M.Sc. (Mathematics and Physics), B.E. Students of Various Universities and for I.A.S., P.C.S., AMIE, GATE, and other competitive exams.Almost all the chapters have been rewritten so that in the present form, the reader will not find any difficulty in understanding the subject matter.The matter of the previous edition has been re-organised so that now each topic gets its proper place in the book.More solved examples have been added so that now each topic gets its proper place in the book. References to the latest papers of various universities and I.A.S. examination have been made at proper places.

ADVANCED DIFFERENTIAL EQUATIONS

S. Chand Publishing This book has been designed to acquaint the students with advanced concepts of differential equations. Comprehensively written, it covers topics such as Boundary Value Problems and their Separation of Variables, Laplace Transforms with Applications, Fourier Transforms and their Applications, the Hankel Transform and its Applications and Calculus of Variations. While the textbook lucidly explains the theoretical concepts, it also presents the various methods and applications related to differential equations. Students of mathematics would find this book extremely useful as well as the aspirants of various competitive examinations.

ENGINEERING MATHEMATICS

PHI Learning Pvt. Ltd.

INTEGRAL EQUATION & BOUNDARY VALUE PROBLEM

S. Chand Publishing Strictly according to the latest syllabus of U.G.C.for Degree level students and for various engineering and professional examinations such as GATE, C.S.I.R NET/JRFand SLET etc. For M.A./M.Sc (Mathematics) also.

FLUID DYNAMICS

S. Chand Publishing For Honours, Post Graduate and M.Phil Students of All Indian Universities, Engineering Students and Various Competitive Examinations

THE NUMERICAL SOLUTION OF ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

World Scientific This book presents methods for the computational solution of differential equations, both ordinary and partial, time-dependent and steady-state. Finite difference methods are introduced and analyzed in the first four chapters, and finite element methods are studied in chapter five. A very general-purpose and widely-used finite element program, PDE2D, which implements many of the methods studied in the earlier chapters, is presented and documented in Appendix A. The book contains the relevant theory and error analysis for most of the methods studied, but also emphasizes the practical aspects involved in implementing the methods. Students using this book will actually see and write programs (FORTRAN or MATLAB) for solving ordinary and partial differential equations, using both finite differences and finite elements. In addition, they will be able to solve very difficult partial differential equations using the software PDE2D, presented in Appendix A. PDE2D solves very general steady-state, time-dependent and eigenvalue PDE systems, in 1D intervals, general 2D regions, and a wide range of simple 3D regions. Contents:Direct Solution of Linear SystemsInitial Value Ordinary Differential EquationsThe Initial Value Diffusion ProblemThe Initial Value Transport and Wave ProblemsBoundary Value ProblemsThe Finite Element MethodsAppendix A — Solving PDEs with PDE2DAppendix B — The Fourier Stability MethodAppendix C — MATLAB ProgramsAppendix D — Answers to Selected Exercises Readership: Undergraduate, graduate students and researchers. Key Features:The discussion of stability, absolute stability and stiffness in Chapter 1 is clearer than in other textsStudents will actually learn to write programs solving a range of simple PDEs using the finite element method in chapter 5In Appendix A, students will be able to solve quite difficult PDEs, using the author's software package, PDE2D. (a free version is available which solves small to moderate sized problems)Keywords:Differential Equations;Partial Differential Equations;Finite Element Method;Finite Difference Method;Computational Science;Numerical AnalysisReviews: "This book is very well written and it is relatively easy to read. The presentation is clear and straightforward but quite rigorous. This book is suitable for a course on the numerical solution of ODEs and PDEs problems, designed for senior level undergraduate or beginning level graduate students. The numerical techniques for solving problems presented in the book may also be useful for experienced researchers and practitioners both from universities or industry." Andrzej Icha Pomeranian Academy in Słupsk Poland

ORDINARY & PARTIAL DIFFERENTIAL EQUATIONS

Tata McGraw-Hill Education This book explores the basic concepts of ordinary and partial differential equations in a simple, systematic and easy-to-understand manner. It details modelling and applications of the subject and describes various analytical methods for solving them. The lucid writing style with numerous solved examples works together to help render conceptual clarity. Salient Features: ? Covers all the important topics like ordinary differential equations of first order, applications of first-order ODE, higher order linear ODE, series solutions of ODE, special functions, first-order PDE, second-order PDE, Fourier series solution of PDE, Laplace transforms and its applications ? Stepwise problem-solving approach with explanation of principles and concepts through ample worked-out examples

A FIRST COURSE IN PARTIAL DIFFERENTIAL EQUATIONS

WITH COMPLEX VARIABLES AND TRANSFORM METHODS

Courier Corporation Suitable for advanced undergraduate and graduate students, this text presents the general properties of partial differential equations, including the elementary theory of complex variables. Solutions. 1965 edition.

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

Differential equations arise in a variety of contexts, some purely theoretical and some of practical interest. As you read this textbook, you will find that the qualitative and quantitative study of differential equations incorporates an elegant blend of linear algebra and advanced calculus. This book is intended for an advanced undergraduate course in differential equations. The reader should have already completed courses in linear algebra, multivariable calculus, and introductory differential equations.

ELEMENTS OF PARTIAL DIFFERENTIAL EQUATIONS

Courier Corporation This text features numerous worked examples in its presentation of elements from the theory of partial differential equations, emphasizing forms suitable for solving equations. Solutions to odd-numbered problems appear at the end. 1957 edition.

PARTIAL DIFFERENTIAL EQUATIONS

AN INTRODUCTION TO THEORY AND APPLICATIONS

Princeton University Press An accessible yet rigorous introduction to partial differential equations This textbook provides beginning graduate students and advanced undergraduates with an accessible introduction to the rich subject of partial differential equations (PDEs). It presents a rigorous and clear explanation of the more elementary theoretical aspects of PDEs, while also drawing connections to deeper analysis and applications. The book serves as a needed bridge between basic undergraduate texts and more advanced books that require a significant background in functional analysis. Topics include first order equations and the method of characteristics, second order linear equations, wave and heat equations, Laplace and Poisson equations, and separation of variables. The book also covers fundamental solutions, Green's functions and distributions, beginning functional analysis applied to elliptic PDEs, traveling wave solutions of selected parabolic PDEs, and scalar conservation laws and systems of hyperbolic PDEs. Provides an accessible yet rigorous introduction to partial differential equations Draws connections to advanced topics in analysis Covers applications to continuum mechanics An electronic solutions manual is available only to professors An online illustration package is available to professors

DYNAMICS

S. Chand Publishing AS PER UNIFIED UGC SYLLABUS FOR B.A./ B.SC. (GENERAL & HONOURS)

PARTIAL DIFFERENTIAL EQUATIONS

CLASSICAL THEORY WITH A MODERN TOUCH

Cambridge University Press Suitable for both senior undergraduate and graduate students, this is a self-contained book dealing with the classical theory of the partial differential equations through a modern approach; requiring minimal previous knowledge. It represents the solutions to three important equations of mathematical physics - Laplace and Poisson equations, Heat or diffusion equation, and wave equations in one and more space dimensions. Keen readers will benefit from more advanced topics and many references cited at the end of each chapter. In addition, the book covers advanced topics such as Conservation Laws and Hamilton-Jacobi Equation. Numerous real-life applications are interspersed throughout the book to retain readers' interest.

ELEMENTS OF REAL ANYALSIS

S. Chand Publishing This book is an attempt to make presentation of Elements of Real Analysis more lucid. The book contains examples and exercises meant to help a proper understanding of the text. For B.A., B.Sc. and Honours (Mathematics and Physics), M.A. and M.Sc. (Mathematics) students of various Universities/ Institutions.As per UGC Model Curriculum and for I.A.S. and Various other competitive exams.

INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

PHI Learning Pvt. Ltd.

LECTURES ON PARTIAL DIFFERENTIAL EQUATIONS

Springer Science & Business Media Choice Outstanding Title! (January 2006) This richly illustrated text covers the Cauchy and Neumann problems for the classical linear equations of mathematical physics. A large number of problems are sprinkled throughout the book, and a full set of problems from examinations given in Moscow are included at the end. Some of these problems are quite challenging! What makes the book unique is Arnold's particular talent at holding a topic up for examination from a new and fresh perspective. He likes to blow away the fog of generality that obscures so much mathematical writing and reveal the essentially simple intuitive ideas underlying the subject. No other mathematical writer does this quite so well as Arnold.

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

CRC Press 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.

DIFFERENTIAL EQUATIONS

John Wiley & Sons Fundamental methods and applications; Fundamental theory and further methods;

PARTIAL DIFFERENTIAL EQUATIONS

AN INTRODUCTION

John Wiley & Sons Partial Differential Equations presents a balanced and comprehensive introduction to the concepts and techniques required to solve problems containing unknown functions of multiple variables. While focusing on the three most classical partial differential equations (PDEs)—the wave, heat, and Laplace equations—this detailed text also presents a broad practical perspective that merges mathematical concepts with real-world application in diverse areas including molecular structure, photon and electron interactions, radiation of electromagnetic waves, vibrations of a solid, and

many more. Rigorous pedagogical tools aid in student comprehension; advanced topics are introduced frequently, with minimal technical jargon, and a wealth of exercises reinforce vital skills and invite additional self-study. Topics are presented in a logical progression, with major concepts such as wave propagation, heat and diffusion, electrostatics, and quantum mechanics placed in contexts familiar to students of various fields in science and engineering. By understanding the properties and applications of PDEs, students will be equipped to better analyze and interpret central processes of the natural world.

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS : THEORY AND APPLICATIONS

PHI Learning Pvt. Ltd. This book presents the theoretical concepts of methods of solutions of ordinary and partial differential equations as well as equips the students with the various tools and techniques to model different physical problems using such equations. The book discusses the basic concepts of differential equations, different methods of solving ordinary differential equations and the solution procedure for 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 book 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.

NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS

John Wiley & Sons A concise introduction to numerical methods and the mathematical framework needed to understand their performance Numerical Solution of Ordinary Differential Equations presents a complete and easy-to-follow introduction to classical topics in the numerical solution of ordinary differential equations. The book's approach not only explains the presented mathematics, but also helps readers understand how these numerical methods are used to solve real-world problems. Unifying perspectives are provided throughout the text, bringing together and categorizing different types of problems in order to help readers comprehend the applications of ordinary differential equations. In addition, the authors' collective academic experience ensures a coherent and accessible discussion of key topics, including: Euler's method Taylor and Runge-Kutta methods General error analysis for multi-step methods Stiff differential equations Differential algebraic equations Two-point boundary value problems Volterra integral equations Each chapter features problem sets that enable readers to test and build their knowledge of the presented methods, and a related Web site features MATLAB® programs that facilitate the exploration of numerical methods in greater depth. Detailed references outline additional literature on both analytical and numerical aspects of ordinary differential equations for further exploration of individual topics. Numerical Solution of Ordinary Differential Equations is an excellent textbook for courses on the numerical solution of differential equations at the upper-undergraduate and beginning graduate levels. It also serves as a valuable reference for researchers in the fields of mathematics and engineering.

MATHEMATICAL ANALYSIS

New Age International The Book Is Intended To Serve As A Text In Analysis By The Honours And Post-Graduate Students Of The Various Universities. Professional Or Those Preparing For Competitive Examinations Will Also Find This Book Useful. The Book Discusses The Theory From Its Very Beginning. The Foundations Have Been Laid Very Carefully And The Treatment Is Rigorous And On Modern Lines. It Opens With A Brief Outline Of The Essential Properties Of Rational Numbers And Using Dedekind's Cut, The Properties Of Real Numbers Are Established. This Foundation Supports The Subsequent Chapters: Topological Frame Work Real Sequences And Series, Continuity Differentiation, Functions Of Several Variables, Elementary And Implicit Functions, Riemann And Riemann-Stieltjes Integrals, Lebesgue Integrals, Surface, Double And Triple Integrals Are Discussed In Detail. Uniform Convergence, Power Series, Fourier Series, Improper Integrals Have Been Presented In As Simple And Lucid Manner As Possible And Fairly Large Number Solved Examples To Illustrate Various Types Have Been Introduced. As Per Need, In The Present Set Up, A Chapter On Metric Spaces Discussing Completeness, Compactness And Connectedness Of The Spaces Has Been Added. Finally Two Appendices Discussing Beta-Gamma Functions, And Cantor's Theory Of Real Numbers Add Glory To The Contents Of The Book.

ORDINARY DIFFERENTIAL EQUATIONS

PRINCIPLES AND APPLICATIONS

Cambridge University Press An easy to understand guide covering key principles of ordinary differential equations and their applications.

ASTROPHYSICS

STARS AND GALAXIES

Universities Press This Book Introduces The Subject Of Astrophysics To Honours And Post-Graduate Students Of Physics, Without The Necessity Of Their Being Familiar With All The Practical Details Of Modern Astronomical Techniques Of Observation And Deduction Of Data. The Emphasis Is On Showing How An Application Of The Commonly Known Laws Of Physics Gives Us Important Information About The Properties Of Celestial Objects And Phenomena.

ORDINARY DIFFERENTIAL EQUATIONS

AN ELEMENTARY TEXTBOOK FOR STUDENTS OF MATHEMATICS, ENGINEERING, AND THE SCIENCES

Courier Corporation Skillfully organized introductory text examines origin of differential equations, then defines basic terms and outlines the general solution of a differential equation. Subsequent sections deal with integrating factors; dilution and accretion problems; linearization of first order systems; Laplace Transforms; Newton's Interpolation Formulas, more.

INTRODUCTORY COURSE IN DIFFERENTIAL EQUATIONS

Orient Blackswan A Brief Exposition Of Some Of The Devices Employed In Solving Differential Equations, The Book Is Designed For Undergraduate Students Of Physics And Engineering, And Students Who Intend To Study Higher Mathematics.

PROBLEMS AND SOLUTIONS

NONLINEAR DYNAMICS, CHAOS AND FRACTALS

World Scientific Publishing Company This book presents a collection of problems for nonlinear dynamics, chaos theory and fractals. Besides the solved problems, supplementary problems are also added. Each chapter contains an introduction with suitable definitions and explanations to tackle the problems. The material is self-contained, and the topics range in difficulty from elementary to advanced. While students can learn important principles and strategies required for problem solving, lecturers will also find this text useful, either as a supplement or text, since concepts and techniques are developed in the problems.

LINEAR INTEGRAL EQUATIONS

Springer Science & Business Media This second edition of Linear Integral Equations continues the emphasis that the first edition placed on applications. Indeed, many more examples have been added throughout the text. Significant new material has been added in Chapters 6 and 8. For instance, in Chapter 8 we have included the solutions of the Cauchy type integral equations on the real line. Also, there is a section on integral equations with a logarithmic kernel. The bibliography at the end of the book has been extended and brought up to date. I wish to thank Professor B.K. Sachdeva who has

checked the revised manuscript and has suggested many improvements. Last but not least, I am grateful to the editor and staff of Birkhauser for inviting me to prepare this new edition and for their support in preparing it for publication. Ram P. Kanwal CHAYFERI Introduction 1.1. Definition An integral equation is an equation in which an unknown function appears under one or more integral signs. Naturally, in such an equation there can occur other terms as well. For example, for $a < s < b$; $a < t < b$, the equations (1.1.1) $f(s) = \int_a^b K(s, t)g(t)dt$, $g(s) = f(s) + \int_a^b K(s, t)g(t)dt$, (1.1.2) $g(s) = \int_a^b K(s, t)[f(t) + g(t)]dt$, (1.1.3) where the function $g(s)$ is the unknown function and all the other functions are known, are integral equations. These functions may be complex-valued functions of the real variables s and t .

LINEAR PARTIAL DIFFERENTIAL EQUATIONS FOR SCIENTISTS AND ENGINEERS

Springer Science & Business Media This significantly expanded fourth edition is designed as an introduction to the theory and applications of linear PDEs. The authors provide fundamental concepts, underlying principles, a wide range of applications, and various methods of solutions to PDEs. In addition to essential standard material on the subject, the book contains new material that is not usually covered in similar texts and reference books. It also contains a large number of worked examples and exercises dealing with problems in fluid mechanics, gas dynamics, optics, plasma physics, elasticity, biology, and chemistry; solutions are provided.

DIFFERENTIAL AND INTEGRAL EQUATIONS

Oxford University Press Differential & integral equations involve important mathematical techniques, & as such will be encountered by mathematicians, & physical & social scientists, in their undergraduate courses. This text provides a clear, comprehensive guide to first- & second- order ordinary & partial differential equations.

DIFFERENTIAL EQUATIONS, 3RD ED

John Wiley & Sons Market_Desc: · Statistics and Mathematics Students and Instructors

REAL ANALYSIS (CLASSIC VERSION)

Math Classics Originally published in 2010, reissued as part of Pearson's modern classic series.

ATOMIC PHYSICS

S. Chand Publishing the book has been revised to include the postgraduate physics syllabi of Indian Universities in addition to the undergraduate honours syllabi covered in the previous edition. Apart from the new addition made in the existing chapters have been added in this edition to deal with the quantum mechanical theories of atomic and molecular structure.

CALCULUS OF VARIATIONS

Courier Corporation Fresh, lively text serves as a modern introduction to the subject, with applications to the mechanics of systems with a finite number of degrees of freedom. Ideal for math and physics students.

INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS AND BOUNDARY VALUE PROBLEMS

ESSENTIALS OF EDUCATIONAL PSYCHOLOGY

PHI Learning Pvt. Ltd. A harmonious blend of the theoretical and practical aspects of educational psychology, this student-friendly text provides a base for the understanding of the subject. The book discusses the various aspects of growth and development, specifically during childhood and adolescence, and accords due importance to the cognitive aspect of human behaviour with elaborate text on intelligence, creativity, thinking, reasoning and problem-solving. Besides maintaining a logical progression of topics, the author has interspersed the text with examples and illustrations to provide an in-depth analysis of the subject matter. The book is ideally suited for the B.Ed. and B.A. (Education) courses but can also be a valuable reference for teachers, teacher-trainees, and practising counsellors at various levels of school education. KEY FEATURES • Cogent and coherent style of writing • Assignment problems and sample tests at the end of various chapters • Wide range of examples and over 50 illustrations to support and explain the topics discussed

PARTIAL DIFFERENTIAL EQUATIONS

AN INTRODUCTION WITH MATHEMATICA AND MAPLE

World Scientific This textbook is a self-contained introduction to partial differential equations. It has been designed for undergraduates and first year graduate students majoring in mathematics, physics, engineering, or science. The text provides an introduction to the basic equations of mathematical physics and the properties of their solutions, based on classical calculus and ordinary differential equations. Advanced concepts such as weak solutions and discontinuous solutions of nonlinear conservation laws are also considered.

ENHANCE YOUR ENGLISH VOCABULARY (SYNONYMS & ANTONYMS)

Upkar Prakashan