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Vladimir A. Dobrushkin



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Differential Equations Stephen A. Wirkus, Randall J. Swift, 2014-12-15 A Course in Ordinary Differential Equations Second Edition teaches students how to use analytical and numerical solution methods in typical engineering physics and mathematics applications Lauded for its extensive computer code and student friendly approach the first edition of this popular textbook was the first on ordinary differential equations

College Geometry David C. Kay, 2011-06-24 Designed for mathematics majors and other students who intend to teach mathematics at the secondary school level College Geometry A Unified Development unifies the three classical geometries within an axiomatic framework The author develops the axioms to include Euclidean elliptic and hyperbolic geometry showing how geometry has real and far reaching implications He approaches every topic as a fresh new concept and carefully defines and explains geometric principles The book begins with elementary ideas about points lines and distance gradually introducing more advanced concepts such as congruent triangles and geometric inequalities At the core of the text the author simultaneously develops the classical formulas for spherical and hyperbolic geometry within the axiomatic framework He explains how the trigonometry of the right triangle including the Pythagorean theorem is developed for classical non Euclidean geometries Previously accessible only to advanced or graduate students this material is presented at an elementary level The book also explores other important concepts of modern geometry including affine transformations and circular inversion Through clear explanations and numerous examples and problems this text shows step by step how fundamental geometric ideas are connected to advanced geometry It represents the first step toward future study of Riemannian geometry Einstein's relativity and theories of cosmology

Ordinary Differential Equations David A. Sanchez, 2002-12-31 For the instructor or student confronting an introductory course in ordinary differential equations there is a need for a brief guide to the key concepts in the subject Important topics like stability resonance existence of periodic solutions and the essential role of continuation of solutions are often engulfed in a sea of exercises in integration linear algebra theory computer programming and an overdose of series expansions This book is intended as that guide It is more conceptual than definitive and more light hearted than pedagogic It covers key topics and theoretical underpinnings that are necessary for the study of rich topics like nonlinear equations or stability theory The Author has included a great many illuminating examples and discussions that uncover the conceptual heart of the matter

Advanced Calculus John Petrovic, 2013-11-01 Suitable for a one or two semester course Advanced Calculus Theory and Practice expands on the material covered in elementary calculus and presents this material in a rigorous manner The text improves students problem solving and proof writing skills familiarizes them with the historical development of calculus concepts and helps them understand

Introduction to Environmental Modeling William G. Gray, Genetha A. Gray, 2017 This textbook presents the timeless basic physical and mathematical principles and philosophy of environmental modeling to students who need to be taught how to think in a different way than they would for more narrowly defined engineering or physics problems Examples come from a range of hydrologic atmospheric and geophysical problems

Advanced Linear

Algebra Nicholas Loehr, 2014-04-10 Designed for advanced undergraduate and beginning graduate students in linear or abstract algebra Advanced Linear Algebra covers theoretical aspects of the subject along with examples computations and proofs It explores a variety of advanced topics in linear algebra that highlight the rich interconnections of the subject to geometry algebra analysis combinatorics numerical computation and many other areas of mathematics The book's 20 chapters are grouped into six main areas algebraic structures matrices structured matrices geometric aspects of linear algebra modules and multilinear algebra The level of abstraction gradually increases as students proceed through the text moving from matrices to vector spaces to modules Each chapter consists of a mathematical vignette devoted to the development of one specific topic Some chapters look at introductory material from a sophisticated or abstract viewpoint while others provide elementary expositions of more theoretical concepts Several chapters offer unusual perspectives or novel treatments of standard results Unlike similar advanced mathematical texts this one minimizes the dependence of each chapter on material found in previous chapters so that students may immediately turn to the relevant chapter without first wading through pages of earlier material to access the necessary algebraic background and theorems Chapter summaries contain a structured list of the principal definitions and results End of chapter exercises aid students in digesting the material Students are encouraged to use a computer algebra system to help solve computationally intensive exercises

Differential Equations and Dynamical Systems Lawrence Perko, 2008-02-01 This textbook presents a systematic study of the qualitative and geometric theory of nonlinear differential equations and dynamical systems Although the main topic of the book is the local and global behavior of nonlinear systems and their bifurcations a thorough treatment of linear systems is given at the beginning of the text All the material necessary for a clear understanding of the qualitative behavior of dynamical systems is contained in this textbook including an outline of the proof and examples illustrating the proof of the Hartman-Grobman theorem In addition to minor corrections and updates throughout this new edition includes materials on higher order Melnikov theory and the bifurcation of limit cycles for planar systems of differential equations **Real**

Analysis and Foundations Steven G. Krantz, 2016-04-19 A Readable yet Rigorous Approach to an Essential Part of Mathematical Thinking Back by popular demand Real Analysis and Foundations Third Edition bridges the gap between classic theoretical texts and less rigorous ones providing a smooth transition from logic and proofs to real analysis Along with the basic material the text covers Riemann-Stieltjes integrals Fourier analysis metric spaces and applications and differential equations New to the Third Edition Offering a more streamlined presentation this edition moves elementary number systems and set theory and logic to appendices and removes the material on wavelet theory measure theory differential forms and the method of characteristics It also adds a chapter on normed linear spaces and includes more examples and varying levels of exercises Extensive Examples and Thorough Explanations Cultivate an In-Depth Understanding This best-selling book continues to give students a solid foundation in mathematical analysis and its applications It prepares them for further

exploration of measure theory functional analysis harmonic analysis and beyond *Applied Differential Equations* Vladimir A. Dobrushkin, 2022-09-21 This book started as a collection of lecture notes for a course in differential equations taught by the Division of Applied Mathematics at Brown University To some extent it is a result of collective insights given by almost every instructor who taught such a course over the last 15 years Therefore the material and its presentation covered in this book were practically tested for many years This text is designed for a two semester sophomore or junior level course in differential equations It offers novel approaches in presentation and utilization of computer capabilities This text intends to provide a solid background in differential equations for students majoring in a breadth of fields Differential equations are described in the context of applications The author stresses differential equations constitute an essential part of modeling by showing their applications including numerical algorithms and syntax of the four most popular software packages Students learn how to formulate a mathematical model how to solve differential equations analytically or numerically how to analyze them qualitatively and how to interpret the results In writing this textbook the author aims to assist instructors and students through Showing a course in differential equations is essential for modeling real life phenomena Stressing the mastery of traditional solution techniques and presenting effective methods including reliable numerical approximations Providing qualitative analysis of ordinary differential equations The reader should get an idea of how all solutions to the given problem behave what are their validity intervals whether there are oscillations vertical or horizontal asymptotes and what is their long term behavior The reader will learn various methods of solving analysis visualization and approximation exploiting the capabilities of computers Introduces and employs Maple™ Mathematica MatLab and Maxima This textbook facilitates the development of the student's skills to model real world problems Ordinary and partial differential equations is a classical subject that has been studied for about 300 years The beauty and utility of differential equations and their application in mathematics biology chemistry computer science economics engineering geology neuroscience physics the life sciences and other fields reaffirm their inclusion in myriad curricula A great number of examples and exercises make this text well suited for self study or for traditional use by a lecturer in class Therefore this textbook addresses the needs of two levels of audience the beginning and the advanced **Introduction to Computation and Modeling for Differential Equations**

Lennart Edsberg, 2015-09-16 Uses mathematical numerical and programming tools to solve differential equations for physical phenomena and engineering problems Introduction to Computation and Modeling for Differential Equations Second Edition features the essential principles and applications of problem solving across disciplines such as engineering physics and chemistry The Second Edition integrates the science of solving differential equations with mathematical numerical and programming tools specifically with methods involving ordinary differential equations numerical methods for initial value problems IVPs numerical methods for boundary value problems BVPs partial differential equations PDEs numerical methods for parabolic elliptic and hyperbolic PDEs mathematical modeling with differential equations numerical solutions and finite

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Dynamical System Models In The Life Sciences And Their Underlying Scientific Issues Frederic Y M Wan, 2017-08-16 Broadly speaking there are two general approaches to teaching mathematical modeling 1 the case study approach and 2 the method based approach that teaches mathematical techniques with applications to relevant mathematical models This text emphasizes instead the scientific issues for modeling different phenomena For the natural or harvested growth of a fish population we may be interested in the evolution of the population whether it reaches a steady state equilibrium or cycle stable or unstable with respect to a small perturbation from equilibrium or whether a small change in the environment would cause a catastrophic change etc Each scientific issue requires an appropriate model and a different set of mathematical tools to extract information from the model Models examined are chosen to help explain or justify empirical observations such as cocktail drug treatments are more effective and regenerations after injuries or illness are fast tracked compared to original developments Volume I of this three volume set limits its scope to phenomena and scientific issues that are modeled by ordinary differential equations ODE Scientific issues such as signal and wave propagation diffusion and shock formation involving spatial dynamics to be modeled by partial differential equations PDE will be treated in Vol II Scientific issues involving randomness and uncertainty are examined in Vol III

Ordinary Differential Equations Radu Precup, 2018-01-22 This introductory text combines models from physics and biology with rigorous reasoning in describing the theory of ordinary differential equations along with applications and

computer simulations with Maple Offering a concise course in the theory of ordinary differential equations it also enables the reader to enter the field of computer simulations Thus it is a valuable read for students in mathematics as well as in physics and engineering It is also addressed to all those interested in mathematical modeling with ordinary differential equations and systems Contents Part I Theory Chapter 1 First Order Differential Equations Chapter 2 Linear Differential Systems Chapter 3 Second Order Differential Equations Chapter 4 Nonlinear Differential Equations Chapter 5 Stability of Solutions Chapter 6 Differential Systems with Control Parameters Part II Exercises Seminar 1 Classes of First Order Differential Equations Seminar 2 Mathematical Modeling with Differential Equations Seminar 3 Linear Differential Systems Seminar 4 Second Order Differential Equations Seminar 5 Gronwall's Inequality Seminar 6 Method of Successive Approximations Seminar 7 Stability of Solutions Part III Maple Code Lab 1 Introduction to Maple Lab 2 Differential Equations with Maple Lab 3 Linear Differential Systems Lab 4 Second Order Differential Equations Lab 5 Nonlinear Differential Systems Lab 6 Numerical Computation of Solutions Lab 7 Writing Custom Maple Programs Lab 8 Differential Systems with Control Parameters

Engineering Analysis Zhihe Jin, 2024-05-20 Engineering Analysis Advanced Mathematical Methods for Engineers introduces graduate engineering students to the fundamental but advanced mathematics tools used in engineering application especially in mechanical aerospace and civil engineering Most engineering problems are described by differential equations particularly partial differential equations PDEs Deformation and failure in solid structures fluid flow heat transfer and mass diffusion are all governed by PDEs in general Many physical quantities in engineering are tensors including deformation gradient strain rates stresses elastic stiffness and thermal conductivity of composite materials This book helps engineering graduate students develop the skills to establish the mathematical models of engineering problems and to solve the problems described by the mathematical models Incorporates numerous engineering examples to help students better understand mathematical concepts and methods for developing mathematical models and finding the solutions of engineering problems Integrates the MATLAB computation tool with many MATLAB programs to enhance students ability to solve engineering problems Includes tensor analysis to better prepare students for advanced engineering courses such as theory of elasticity fluid dynamics and heat transfer Inclusion of tensor analysis also allows a unified treatment of vector and tensor calculus

Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory Carlos Castillo-Chavez, Sally Blower, Pauline van den Driessche, Denise Kirschner, Abdul-Aziz Yakubu, 2012-12-06 This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES FOR EMERGING AND REEMERGING INFECTIOUS DISEASES MODELS AND THEORY METHODS is based on the proceedings of a successful one week workshop The proceedings of the two day tutorial which preceded the workshop Introduction to Epidemiology and Immunology appears as IMA Volume 125 Mathematical Approaches for Emerging and Reemerging Infectious Diseases An Introduction The tutorial and the workshop are integral parts of the September 1998 to June 1999 IMA program on MATHEMATICS IN BI

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