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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

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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 difference and finite element methods. The author features a unique Five M approach: Modeling, Mathematics, Methods, MATLAB, and Multiphysics, which facilitates a thorough understanding of how models are created and preprocessed mathematically with scaling, classification, and approximation, and also demonstrates how a problem is solved numerically using the appropriate mathematical methods. With numerous real-world examples to aid in the visualization of the solutions. *Introduction to Computation and Modeling for Differential Equations* Second Edition includes new sections on topics including variational

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Vladimir Mityushev, Radosław Antoni Kycia, Wojciech Nawalaniec, Natalia Rylko, 2024-12-20 Introduction to Mathematical Modeling and Computer Simulations Second Edition continues to serve as an engaging and accessible textbook for undergraduates studying mathematical modeling and computer simulations The book is heavily focussed on applications and so may have a particular appeal to applied mathematicians engineers and others working in applied quantitative disciplines The book may also be useful as a reference text for early career stage practitioners New to this Edition A new chapter on Machine Learning and Data Analysis in order to account for recent developments in the field Chapter 9 Asymptotic Methods in Composites has been entirely re written to make it more consistent with industry and scientific standards Includes an elementary introduction to programming in Python language The Jupyter notebooks with examples for Chapter 10 and Appendix A are available for a download from www.Routledge.com 9781032661513

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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

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Methods of Applied Mathematics for Engineers and Scientists Tomas B. Co, 2013-06-28 Based on course notes from over twenty years of teaching engineering and physical sciences at Michigan Technological University Tomas Co's engineering mathematics textbook is rich with examples applications and exercises Professor Co uses analytical approaches to solve smaller problems to provide mathematical insight and understanding and numerical methods for large and complex problems The book emphasises applying matrices with strong attention to matrix structure and computational issues such as sparsity and efficiency Chapters on vector calculus and integral theorems are used to build coordinate free physical models with special emphasis on orthogonal coordinates Chapters on ODEs and PDEs cover both analytical and numerical approaches Topics on analytical solutions include similarity transform methods direct formulas for series solutions bifurcation analysis Lagrange Charpit formulas shocks rarefaction and others Topics on numerical methods include stability analysis DAEs high order finite difference formulas Delaunay meshes and others MATLAB implementations of the methods and concepts are fully integrated Combinatorics for Computer Science Stanley Gill Williamson, 2002-01-01 Useful guide covers two major subdivisions of combinatorics enumeration and graph theory with emphasis on conceptual needs of computer science Each part is divided into a basic concepts chapter emphasizing intuitive needs of the subject followed by four topics chapters that explore these ideas in depth Invaluable practical resource for graduate students advanced undergraduates and professionals with an interest in algorithm design and other aspects of computer science and combinatorics References for Linear Order

for Graphs Trees and Recursions 219 figures **Scientific and Technical Aerospace Reports**, 1976 *Linear Programming and Economic Analysis* Robert Dorfman, Paul A. Samuelson, Robert M. Solow, 2012-10-10 Designed primarily for economists and those interested in management economics who are not necessarily accomplished mathematicians this text offers a clear concise exposition of the relationship of linear programming to standard economic analysis The research and writing were supported by The RAND Corporation in the late 1950s Linear programming has been one of the most important postwar developments in economic theory but until publication of the present volume no text offered a comprehensive treatment of the many facets of the relationship of linear programming to traditional economic theory This book was the first to provide a wide ranging survey of such important aspects of the topic as the interrelations between the celebrated von Neumann theory of games and linear programming and the relationship between game theory and the traditional economic theories of duopoly and bilateral monopoly Modern economists will especially appreciate the treatment of the connection between linear programming and modern welfare economics and the insights that linear programming gives into the determinateness of Walrasian equilibrium The book also offers an excellent introduction to the important Leontief theory of

input output as well as extensive treatment of the problems of dynamic linear programming Successfully used for three decades in graduate economics courses this book stresses practical problems and specifies important concrete applications

A Guide to MATLAB Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Kevin R. Coombes, John E. Osborn, Garrett J. Stuck, 2006-06-08 This is a short focused introduction to MATLAB a comprehensive software system for mathematical and technical computing It contains concise explanations of essential MATLAB commands as well as easily understood instructions for using MATLAB s programming features graphical capabilities simulation models and rich desktop interface Written for MATLAB 7 it can also be used with earlier and later versions of MATLAB This book teaches how to graph functions solve equations manipulate images and much more It contains explicit instructions for using MATLAB s companion software Simulink which allows graphical models to be built for dynamical systems MATLAB s new publish feature is discussed which allows mathematical computations to be combined with text and graphics to produce polished integrated interactive documents For the beginner it explains everything needed to start using MATLAB while experienced users making the switch to MATLAB 7 from an earlier version will also find much useful information here

Ordinary Differential Equations and Linear Algebra Todd Kapitula, 2015-11-17 Ordinary differential equations ODEs and linear algebra are foundational postcalculus mathematics courses in the sciences The goal of this text is to help students master both subject areas in a one semester course Linear algebra is developed first with an eye toward solving linear systems of ODEs A computer algebra system is used for intermediate calculations Gaussian elimination complicated integrals etc however the text is not tailored toward a particular system Ordinary Differential Equations and Linear Algebra A Systems Approach systematically develops the linear algebra needed to solve systems of ODEs and includes over 15 distinct applications of the theory many of which are not typically seen in a textbook at this level e g lead poisoning SIR models digital filters It emphasizes mathematical modeling and contains group projects at the end of each chapter that allow students to more fully explore the interaction between the modeling of a system the solution of the model and the resulting physical description

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