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An Introduction to Partial Differential Equations with MATLAB Matthew P. Coleman, 2016-04-19 An Introduction to Partial Differential Equations with MATLAB Second Edition illustrates the usefulness of PDEs through numerous applications and helps students appreciate the beauty of the underlying mathematics Updated throughout this second edition of a bestseller shows students how PDEs can model diverse problems including the flow of heat

Introduction to Numerical Analysis Using MATLAB® Butt, 2009-02-17 Numerical analysis is the branch of mathematics concerned with the theoretical foundations of numerical algorithms for the solution of problems arising in scientific applications. Designed for both courses in numerical analysis and as a reference for practicing engineers and scientists, this book presents the theoretical concepts of numerical analysis and the practical justification of these methods are presented through computer examples with the latest version of MATLAB. The book addresses a variety of questions ranging from the approximation of functions and integrals to the approximate solution of algebraic, transcendental, differential and integral equations with particular emphasis on the stability, accuracy, efficiency and reliability of numerical algorithms. The CD ROM which accompanies the book includes source code, a numerical toolbox, executables and simulations.

Dynamical Systems and Geometric Mechanics Jared Maruskin, 2018-08-21 Introduction to Dynamical Systems and Geometric Mechanics provides a comprehensive tour of two fields that are intimately entwined. Dynamical systems is the study of the behavior of physical systems that may be described by a set of nonlinear first order ordinary differential equations in Euclidean space, whereas geometric mechanics explore similar systems that instead evolve on differentiable manifolds. The first part discusses the linearization and stability of trajectories and fixed points, invariant manifold theory, periodic orbits, Poincaré maps, Floquet theory, the Poincaré-Bendixson theorem, bifurcations and chaos. The second part of the book begins with a self-contained chapter on differential geometry that introduces notions of manifolds, mappings, vector fields, the Jacobi-Lie bracket and differential forms.

Multivariate Analysis Jude May, 2018-07-22 When measuring a few factors on a complex test unit, it is frequently important to break down the factors all the while, as opposed to separate them and think of them as independently. This book, *Multivariate Investigation*, empowers analysts to investigate the joint execution of such factors and to decide the impact of every factor within the sight of the others. This book gives understudies of every single measurable foundation with both the major and more modern aptitudes important to ace the train. To represent multivariate applications, the creator gives cases and activities in light of fifty-nine genuine informational collections from a wide assortment of logical fields. Here, a strategic way to deal with his subject with an accentuation on how understudies and professionals can utilize multivariate investigation in all things considered circumstances. This book's sections include Cluster analysis, Multidimensional scaling, Correspondence analysis, Biplots.

Modern Control Systems Richard C. Dorf, Robert H. Bishop, 2008 Written to be equally useful for all engineering disciplines, this book is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models, including pole placement design techniques with full state feedback controllers and full state observers. The book covers several important topics including robust control systems and system sensitivity, state variable models, controllability and observability, computer control systems, internal model control, robust PID controllers, and computer-aided design and

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Object Detection and Recognition in Digital Images Boguslaw Cyganek, 2013-05-20 Object detection tracking and recognition in images are key problems in computer vision This book provides the reader with a balanced treatment between the theory and practice of selected methods in these areas to make the book accessible to a range of researchers engineers developers and postgraduate students working in computer vision and related fields Key features Explains the main theoretical ideas behind each method which are augmented with a rigorous mathematical derivation of the formulas their implementation in C and demonstrated working in real applications Places an emphasis on tensor and statistical based approaches within object detection and recognition Provides an overview of image clustering and classification methods which includes subspace and kernel based processing mean shift and Kalman filter neural networks and k means methods Contains numerous case study examples of mainly automotive applications Includes a companion website hosting full C implementation of topics presented in the book as a software library and an accompanying manual to the software platform

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Predictions in Time Series Using Regression Models Cory Terrell, 2019-09-02 Regression methods have been a necessary piece of time arrangement investigation for over a century As of late new advancements have made real walks in such territories as non constant information where a direct model isn't fitting This book acquaints the peruser with fresher improvements and more assorted regression models and methods for time arrangement examination Open to any individual who knows about the fundamental present day ideas of factual deduction Regression Models for Time Series Analysis gives a truly necessary examination of late measurable advancements Essential among them is the imperative class of models known as summed up straight models GLM which gives under a few conditions a bound together regression hypothesis reasonable for constant all out and check information The creators stretch out GLM methodology deliberately to time arrangement where the essential and covariate information are both arbitrary and stochastically reliant They acquaint readers with different regression models created amid the most recent thirty years or somewhere in the vicinity and condense traditional and later outcomes concerning state space models

[Introduction to Synthetic Aperture Radar Using Python and MATLAB®](#) Lee Andrew (Andy) Harrison, 2022-08-31 This comprehensive introduction to synthetic aperture radar SAR is a practical guide to the analysis simulation and design of SAR systems The video eBook uses constructive examples and real world collected datasets to demonstrate image registration and autofocus methods Both two and three dimensional image formation algorithms are presented Hardware software and environmental parameters are used to estimate performance limits for SAR operation and utilization A set of Python and MATLAB software tools is included and provides you with an effective mechanism to analyze and predict SAR performance for various imaging scenarios and applications

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A Concise Introduction to Linear Algebra Géza Schay, 2012-03-30 Building on the author's previous edition on the subject Introduction to Linear Algebra Jones Bartlett 1996 this book offers a refreshingly concise text suitable for a standard course in linear algebra presenting a carefully selected array of essential topics that can be thoroughly covered in a single semester Although the exposition generally falls in line with the material recommended by the Linear Algebra Curriculum Study Group it notably deviates in providing an early emphasis on the geometric foundations of linear algebra This gives students a more intuitive understanding of the subject and enables an easier grasp of more abstract concepts covered later in the course The focus throughout is rooted in the mathematical fundamentals but the text also investigates a number of interesting applications including a section on computer graphics a chapter on numerical methods and many exercises and examples using MATLAB Meanwhile many visuals and problems a complete solutions manual is available to instructors are included to enhance and reinforce understanding throughout the book Brief yet precise and rigorous this work is an ideal choice for a one semester course in linear algebra targeted primarily at math or physics majors It is a valuable tool for any professor who teaches the subject

Measurement in Fluid Mechanics Stavros Tavoularis, 2005-10-24 Measurement in Fluid Mechanics is an introductory up to date general reference in experimental fluid mechanics describing both classical and state of the art methods for flow visualization and for measuring flow rate pressure velocity temperature concentration and wall shear stress Particularly suitable as a textbook for graduate and advanced undergraduate courses Measurement in Fluid Mechanics is also a valuable tool for practicing engineers and applied scientists This book is written by a single author in a consistent and straightforward style with plenty of clear illustrations an extensive bibliography and over 100 suggested exercises Measurement in Fluid Mechanics also features extensive background materials in system response measurement uncertainty signal analysis optics fluid mechanical apparatus and laboratory practices which shield the reader from having to consult with a large number of primary references Whether for instructional or reference purposes this book is a valuable tool for the study of fluid mechanics Stavros Tavoularis has received a Dipl Eng from the National Technical University of Athens Greece an M Sc from Virginia Polytechnic Institute and State University and a Ph D from The Johns Hopkins University He has been a professor in the Department of Mechanical Engineering at the University of Ottawa since 1980 where he has served terms as the Department Chair and Director of the Ottawa Carleton Institute for Mechanical and Aerospace Engineering His research interests include turbulence structure turbulent diffusion vortical flows aerodynamics biofluid dynamics nuclear reactor thermal hydraulics and the development of experimental methods Professor Tavoularis is a Fellow of the Engineering Institute of Canada a Fellow of the Canadian

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