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studies and scripting tutorials that enable readers to apply and further develop the supplied simulations. The book describes the foundations of molecular dynamics and continuum mechanics methods, guides readers through the basic steps required for multiscale modeling of any material, and correlates the results between the experimental and theoretical work performed. Focused primarily on nanocomposites, the methods covered in the book are applicable to various other materials such as carbon nanotubes, polymers, metals, and ceramics. Throughout the book, readers are introduced to key topics of relevance to nanocomposite materials and structures—supported by journal articles that discuss recent developments in modeling techniques and in the prediction of mechanical and thermal properties. This timely, highly practical resource: Explains

the molecular dynamics (MD) simulation procedure for nanofiber and nanoparticle reinforced polymer composites Compares results of experimental and theoretical results from mechanical models at different length scales Covers different types of fibers and matrix materials that constitute composite materials, including glass, boron, carbon, and Kevlar Reviews models that predict the stiffness of short-fiber composites, including the self-consistent model for finite-length fibers, bounding models, and the Halpin-Tsai equation Describes various molecular modeling methods such as Monte Carlo, Brownian dynamics, dissipative particle dynamics, and lattice Boltzmann methods Highlights the potential of nanocomposites for defense and space applications Perfect for materials scientists, materials engineers, polymer scientists, and mechanical engineers, Mechanics of Particle- and Fiber-

Reinforced Polymer Nanocomposites is also a must-have reference for computer simulation scientists seeking to improve their understanding of reinforced polymer nanocomposites.

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The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data

science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

This book provides a conceptual introduction to the theory of ordinary differential equations, concentrating on the initial value problem for equations of evolution and with applications to the calculus of variations and classical mechanics, along with a discussion of chaos theory and ecological models. It has a unified and visual introduction to the theory of numerical methods and a novel approach to the analysis of errors and stability of various numerical solution algorithms based on carefully chosen model problems. While the book would be suitable as a textbook for an undergraduate or elementary graduate course in ordinary differential equations, the authors have designed the text also to be useful for motivated students wishing to learn the material on their own or desiring to supplement an ODE textbook being used in a course they are taking with a text offering a more conceptual approach to the subject.

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introduce control-oriented modeling. They
begin with state space tools for analysis and
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Lyapunov functions, reachability, state
feedback observability, and estimators. The
matrix exponential plays a central role in the

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