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Moving Frames for the Numerical Solution of Partial Differential Equations in Complex Domains Seunghun Chun, 2025-11-24 This book presents a comprehensive and geometrical approach to solving partial differential equations (PDEs) on complex curved domains using orthonormal moving frames. Rooted in Lie Cartan's classical theory but adapted for computational practicality, the framework aligns local basis vectors with the intrinsic geometry and anisotropy of the domain, enabling accurate and efficient discretization without requiring explicit metric tensors or Christoffel symbols. Topics include the construction of moving frames on general manifolds, covariant derivatives via connection 1-forms, and frame-based formulations of gradient, divergence, curl, and Laplacian operators. Extensive MATLAB and C implementations via Nektar are provided for benchmark problems in diffusion, reaction systems, shallow water equations, and Maxwell's equations on complex surfaces such as the sphere, pseudosphere, and atrial tissue. Emphasizing clarity and accessibility, the book blends theory, visualization, and numerical practice, making it an essential resource for graduate students and researchers in scientific computing, applied mathematics, and engineering disciplines dealing with PDEs on non-Euclidean domains.

Electromagnetism Carolina C. Ilie, Zachariah S. Schrecengost, 2016-11-01 Electromagnetism: Problems and Solutions is an ideal companion book for the undergraduate student (sophomore, junior, or senior) who may want to work on more problems and receive immediate feedback while studying. Each chapter contains brief theoretical notes followed by the problem text with the solution and ends with a brief bibliography. Also presented are problems more general in nature which may be a bit more challenging. *American Journal of Physics*, 2002

Intermediate Electromagnetic Theory Joseph V. Stewart, 2001 This invaluable text has been developed to provide students with more background on the applications of electricity and magnetism, particularly with those topics which relate to current research. For example, waveguides (both metal and dielectric) are discussed more thoroughly than in most texts because they are an important laboratory tool and important

components of modern communications In a sense this book modernizes the topics covered in the typical course on electricity and magnetism It provides not only solid background for the student who chooses a field which uses techniques requiring knowledge of electricity and magnetism but also general background for the physics major

Computational Modeling and Visualization of Physical Systems with Python Jay Wang,2015-12-21 Computational Modeling by Jay Wang introduces computational modeling and visualization of physical systems that are commonly found in physics and related areas The authors begin with a framework that integrates model building algorithm development and data visualization for problem solving via scientific computing Through carefully selected problems methods and projects the reader is guided to learning and discovery by actively doing rather than just knowing physics

Principles of Fluorescence Spectroscopy Joseph R. Lakowicz,2007-12-05 The third edition of this established classic text reference builds upon the strengths of its very popular predecessors Organized as a broadly useful textbook Principles of Fluorescence Spectroscopy 3rd edition maintains its emphasis on basics while updating the examples to include recent results from the scientific literature The third edition includes new chapters on single molecule detection fluorescence correlation spectroscopy novel probes and radiative decay engineering Includes a link to Springer Extras to download files reproducing all book artwork for easy use in lecture slides This is an essential volume for students researchers and industry professionals in biophysics biochemistry biotechnology bioengineering biology and medicine

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