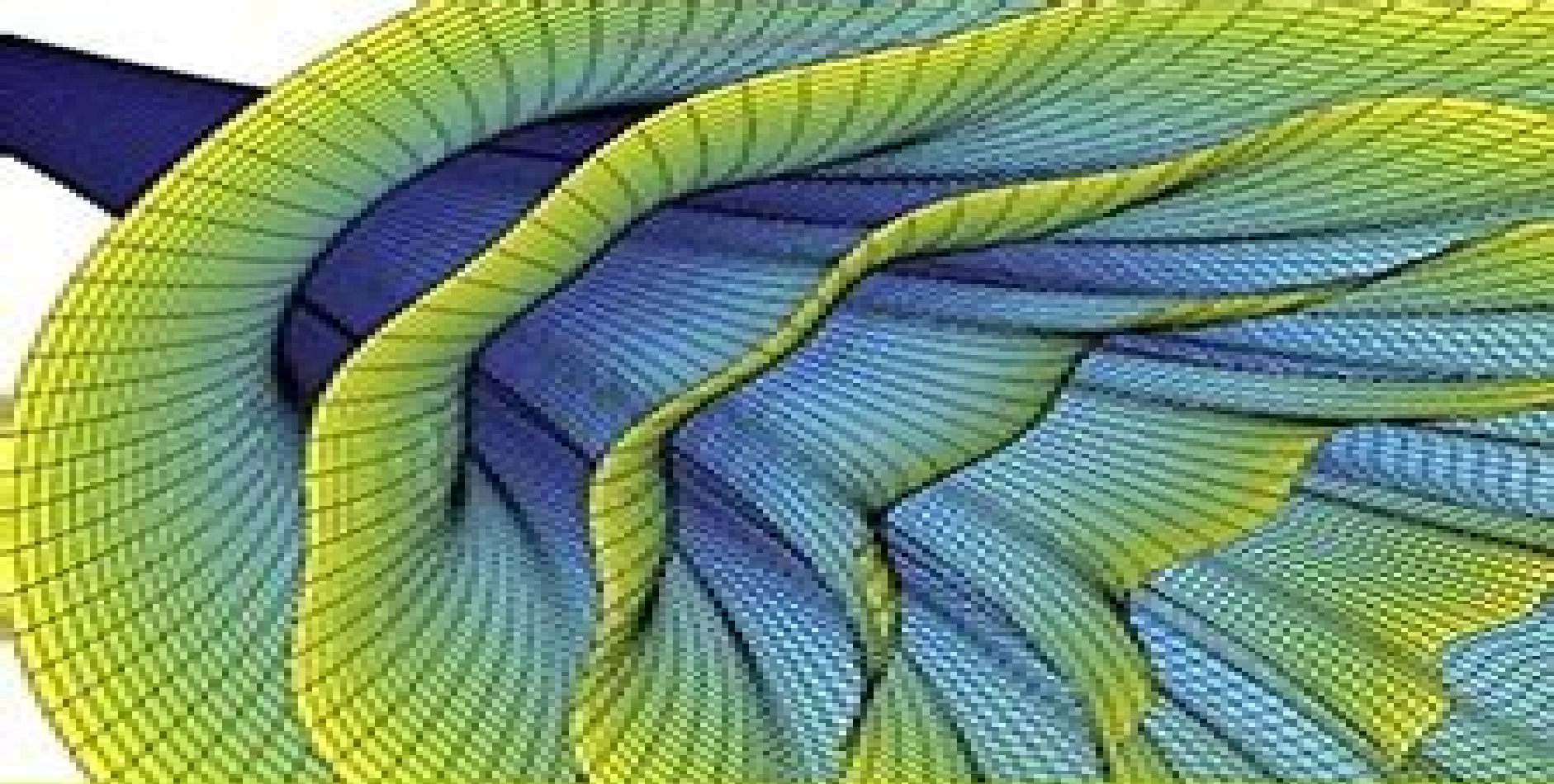




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Sabine Zange



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A supplemental text that can enrich and enhance any first course in ordinary differential equations This supplement helps instructors move towards an earlier use of numerical and geometric methods place a greater emphasis on systems including nonlinear ones and increase discussions of both the benefits and possible pitfalls in numerical solution of ODEs By providing an introduction to the software that is integrated with the relevant mathematics Differential Equations with MATLAB can perfectly complement and enhance other texts from Wiley Since the third edition of Differential Equations with MATLAB first appeared in 2012 there have been many changes and enhancements to MATLAB and Simulink These include addition of live scripts new plotting commands and major changes to the Symbolic Math Toolbox This revised version brings the text completely up to date with the 2019a release of MATLAB

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Numerical Analysis Using MATLAB and Excel Steven T. Karris, 2007 This text is written primarily for students readers who have a good background of

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starts from key mathematical concepts such as Krylov space methods preconditioning multigrid and Newton's method. In PETSc these components are composed at run time into fast solvers. Discretizations are introduced from the beginning with an emphasis on finite difference and finite element methodologies. The example C programs of the first 12 chapters listed on the inside front cover solve mostly elliptic and parabolic PDE problems. Discretization leads to large sparse and generally nonlinear systems of algebraic equations. For such problems mathematical solver concepts are explained and illustrated through the examples with sufficient context to speed further development. PETSc for Partial Differential Equations addresses both discretizations and fast solvers for PDEs emphasizing practice more than theory. Well structured examples lead to run time choices that result in high solver performance and parallel scalability. The last two chapters build on the reader's understanding of fast solver concepts when applying the Firedrake Python finite element solver library. This textbook the first to cover PETSc programming for nonlinear PDEs provides an on ramp for graduate students and researchers to a major area of high performance computing for science and engineering. It is suitable as a supplement for courses in scientific computing or numerical methods for differential equations.

Numerical Solution of Ordinary Differential Equations

Kendall Atkinson, Weimin Han, David E. Stewart, 2011-10-24. A concise introduction to numerical methods and the mathematical framework needed to understand their performance. Numerical Solution of Ordinary Differential Equations presents a complete and easy to follow introduction to classical topics in the numerical solution of ordinary differential equations. The book's approach not only explains the presented mathematics but also helps readers understand how these numerical methods are used to solve real world problems. Unifying perspectives are provided throughout the text bringing together and categorizing different types of problems in order to help readers comprehend the applications of ordinary differential equations. In addition the authors' collective academic experience ensures a coherent and accessible discussion of key topics including Euler's method, Taylor and Runge Kutta methods, General error analysis for multi step methods, Stiff differential equations, Differential algebraic equations, Two point boundary value problems, Volterra integral equations. Each chapter features problem sets that enable readers to test and build their knowledge of the presented methods and a related Web site features MATLAB programs that facilitate the exploration of numerical methods in greater depth. Detailed references outline additional literature on both analytical and numerical aspects of ordinary differential equations for further exploration of individual topics. Numerical Solution of Ordinary Differential Equations is an excellent textbook for courses on the numerical solution of differential equations at the upper undergraduate and beginning graduate levels. It also serves as a valuable reference for researchers in the fields of mathematics and engineering.

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