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Uri Ascher and Chen Greif, A First Course in Numerical Methods, SIAM, 2011. This is an undergraduate or beginning graduate introductory textbook on numerical methods. Errata . Supplementary material including matlab programs ; Earlier Books . Uri Ascher, 2008, Numerical Methods for Evolutionary Differential Equations

Uri Ascher Home Page

A First Course in Numerical Methods Uri M. Ascher and Chen Greif Programs.zip: a zip file containing the Matlab scripts used in this book. The program names correspond to those in the text or the example/figure they relate to and are thus self-explanatory.

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Abstract—In the present paper some recommendations for the use of software package " Mathematica " in a basic numerical analysis course are presented. The methods which are covered in the course include solution of systems of linear equations, nonlinear equations and systems of nonlinear equations, numerical integration, interpolation and solution of ordinary differential equations.

A First Course in Numerical Methods with—Mathematica—CORE

Iserles, A., A First Course in the Numerical Analysis of Differential Equations. Cambridge University Press, Cambridge, 2008 Google Scholar. Ji, H., Chen, J., and Li, Z., A symmetric and consistent immersed finite element method for interface problems. J.

Numerical Solution of Differential Equations by Zhilin Li

A First Course in Ordinary Differential Equations. Presents a modern introduction to analytical and numerical techniques for solving ordinary differential equations. Provides a variety of problems to help students test and deepen their knowledge. A valuable resource for physicists, chemists, biologists, computer scientists and engineers, as well as for students whose work involves solving ODEs.

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