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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

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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.

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