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This textbook is intended to introduce advanced undergraduate and early-career graduate students to the field of numerical analysis. This field pertains to the design, analysis, and implementation of algorithms for the approximate solution of mathematical problems that arise in applications spanning science and engineering, and are not practical to solve using analytical techniques such as those taught in courses in calculus, linear algebra or differential equations. Topics covered include computer arithmetic, error analysis, solution of systems of linear equations, least squares problems, eigenvalue problems, nonlinear equations, optimization, polynomial interpolation and approximation, numerical differentiation

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and integration, ordinary differential equations, and partial differential equations. For each problem considered, the presentation includes the derivation of solution techniques, analysis of their efficiency, accuracy and robustness, and details of their implementation, illustrated through the Python programming language. This text is suitable for a year-long sequence in numerical analysis, and can also be used for a one-semester course in numerical linear algebra.

rd This book presents a collection of selected contributions presented at the 3 International Workshop on Scientific Computing in Electrical Engineering, SCEE-2000, which took place in Warnemiinde, Germany, from August 20 to 23, 2000. Nearly hundred scientists and engineers from thirteen countries gathered in Warnemiinde to participate in the conference. Rostock University, the oldest university in Northern Europe founded in 1419, hosted the conference. This workshop followed two earlier workshops held 1997 at the Darmstadt University of Technology and 1998 at Weierstrass Institute for Applied Analysis and Stochastics in Berlin under the auspices of the German Mathematical Society. These workshops aimed at bringing together two scientific communities: applied mathematicians and electrical engineers who do research in the field of scientific computing in electrical engineering. This, of course, is a wide field, which is why it was decided to concentrate on selected major topics. The workshop in Darmstadt, which was organized by Michael Giinther from the Mathematics Department and Ursula van Rienen from the Department of Electrical Engineering and Information Technology, brought together more than hundred scientists interested in numerical methods for the simulation of circuits and electromagnetic fields. This was a great success. Voices coming from the participants suggested that it was time to bring these communities together in order to get to know each other, to discuss mutual interests and to start cooperative work. A collection of selected contributions appeared in 'Surveys on Mathematics for Industry', Vol.8, No. 3-4 and Vol.9, No.2, 1999.

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