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The first notebook (ANA0) aims to introduce the reader to the Mathematica system, illustrating the concepts and commands that will be required in the basic understanding of the notebooks to follow. The second notebook (ANA1) intends to discuss the questions of precision and accuracy in scientific computation, and how the system deals with fixed and variable precision arithmetic. The next eight notebooks (ANA2 through ANA9) deal with the most common computational tasks in numerical analysis, starting with polynomial interpolation and up to the solution of boundary value problems. The next two notebooks (ANA10 and ANA11) include research work by the authors on the use of the Integral Transform Method in the solution of differential eigenvalue problems and nonlinear partial differential equations, respectively.

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