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Introduction to Numerical Analysis Doron Levy Department of Mathematics and Center for Scientific Computation and Mathematical Modeling (CSCAMM) University of Maryland

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An Introduction to Numerical Analysis - Assets

In our definitions of linear convergence and convergence with order q , we followed Definitions 2.1 and 2.2 in Chapter 4 of Walter Gautschi, Numerical Analysis: an Introduction, Birkhäuser, Boston, MA, 1997.

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Preface What follows are my lecture notes for Math 3311: Introduction to Numerical Methods, taught at the Hong Kong University of Science and Technology.

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Introduction Numerical analysis is a branch of Mathematics that deals with devising efficient methods for obtaining numerical solutions to difficult Mathematical problems. Most of the Mathematical problems that arise in science and engineering are very hard and sometime impossible to solve exactly.

S.Baskar - IIT Bombay

2. An Overview of Numerical Analysis. The following is a rough categorization of the mathematical theory underlying numerical analysis, keeping in mind that there is often a great deal of overlap between the listed areas. For a compendium on the current state on research in numerical analysis, see [14]. 2.1.

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Preface This text provides an introduction to the numerical methods that are typically encountered (and used) in science and engineering undergraduate courses.

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