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The subject of numerical analysis is treated from a mathematical point of view, offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs. In an engaging and informal style, the authors demonstrate that many computational procedures and intriguing questions of computer science arise from theorems and proofs.

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Numerical Analysis: Mathematics of Scientific Computing, Third Edition David Kincaid and Ward Cheney Table of Contents Preface Numerical Analysis: What Is It? Mathematical Preliminaries 1.0 Introduction 1.1 Basic Concepts and Taylor's Theorem

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Numerical analysis is the branch of rigorous mathematics that deals with the development and use of methods for solving problems in computational science and engineering. It is a broadly based discipline that sits at the interface between mathematical analysis and scientific computing.

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The History of Numerical Analysis and Scientific Computing

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