



# **Classical and Modern Numerical Analysis: Theory, Methods and Practice (Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series)**

*Azmy S. Ackleh, Edward James Allen, R. Baker Kearfott, Padmanabhan Seshaiyer*

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The text covers the main areas of introductory numerical analysis, including the solution of nonlinear equations, numerical linear algebra, ordinary differential equations, approximation theory, numerical integration, and boundary value problems. Focusing on interval computing in numerical analysis, it explains interval arithmetic, interval computation, and interval algorithms. The authors illustrate the concepts with many examples as well as analytical and computational exercises at the end of each chapter.

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