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Summary This well-respected book introduces readers to the theory and application of modern numerical approximation techniques. Providing an accessible treatment that only requires a calculus prerequisite, the authors explain how, why, and when approximation techniques can be expected to work - and why, in some situations, they fail.

Numerical Analysis - Textbooks

Theoretical Numerical Analysis: A Functional Analysis Framework, K. Atkinson, W. Han The first two are Dover books, so the price is great, the last two are lots of dough. I do not have the last one, but it looks worthwhile checking out.

Recommendations for Numerical Analysis texts ...

The entire text is designed to move from elementary ideas to more sophisticated concepts to avoid sudden jumps in level. Spotlights throughout the text highlight the five major ideas of numerical analysis—convergence, complexity, conditioning, compression, and orthogonality. These spotlights comment on the topic at hand and make informal connections to other expressions of the same concept elsewhere in the book, helping students synthesize new material with what they already know.

Sauer, Numerical Analysis | Pearson

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Numerical Analysis: Theory and Experiments by Brian Sutton is one of several recent textbooks for an undergraduate course on numerical analysis or scientific computing published by the Society for Industrial and Applied Mathematics (SIAM). Sutton's book is of high quality, and I am quite impressed.

Numerical Analysis: Theory and Experiments | Mathematical ...

Numerical analysis is the study of algorithms that use numerical approximation (as opposed to symbolic manipulations) for the problems of mathematical analysis (as distinguished from discrete mathematics).

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