

An Introduction To Numerical Analysis



An Introduction To Numerical Analysis

This textbook is written primarily for undergraduate mathematicians and also appeals to students working at an advanced level in other disciplines. The text begins with a clear motivation for the study of numerical analysis based on real-world problems.

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An Introduction to Numerical Analysis. Sarker, Md Rashedul H Silva, Jorge L Castañeda, Mariana Wilburn, Bethany Lin, Yirong and Love, Norman 2017. Characterization of the pyroelectric coefficient of a high-temperature sensor. Journal of Intelligent Material Systems and Structures , p. 1045389X1772137.

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An Introduction to Numerical Analysis

As a simple but important example, consider the problem of solving a nonlinear equation $f(x) = 0$. Approximate the graph of $y = f(x)$ by the tangent line at a point $x(0)$ near the desired root, and use the root of the tangent line to approximate the root of the original nonlinear function $f(x)$.

NUMERICAL ANALYSIS - Department of Mathematics

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S. Baskar - IIT Bombay

Numerical Analysis for Applied Science, John Wiley, New York, 1998. A very nice introduction. K Atkinson. An Introduction to Numerical Analysis, 2nd ed., John Wiley, New York, 1989. I am the author of this text, and I believe it gives a good introduction to most introductory level topics in numerical analysis. W Gander and J Hrebicek.

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