

List of Changes





Engineering Computation: AnIntroduction Using MATLAB andExcel 2nd Edition

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This text provides a detailed introduction to the computational techniques, numerical methods, and computational tools used by engineering students. It is aimed at first or second year students, and is intended to provide the theoretical and computational foundation required for advanced study in engineering. The text provides a foundation in computational theory, and an overview of the numerical methods used by engineering students and practicing engineers. The text focuses on implementation of these computational techniques using two widely-used software packages: MATLAB, which provides a structured programming environment, and Excel, which is a ubiquitous spreadsheet application. Throughout the text, these two softwares are used to demonstrate the computational techniques developed in the text, and their advantages and limitations are described.

SEE LIST OF CHANGES ATTACHED.

New to This Edition:

- Updated for the latest versions of MATLAB and Excel.
- **New end-of-chapter problems** have been created *which offer* enhanced opportunities to practice techniques learned in the text.
- A **new tutorial involving symbolic computation in MATLAB** has been developed which offers a new opportunity to learn new techniques.