



Essentials of the Finite Element Method: For Mechanical and Structural Engineers

Dimitrios G Pavlou

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Fundamental coverage, analytic mathematics, and up-to-date software applications are hard to find in a single text on the finite element method (FEM). Dimitrios Pavlou's *Essentials of the Finite Element Method: For Structural and Mechanical Engineers* makes the search easier by providing a comprehensive but concise text for those new to FEM, or just in need of a refresher on the essentials.

Essentials of the Finite Element Method explains the basics of FEM, then relates these basics to a number of practical engineering applications. Specific topics covered include linear spring elements, bar elements, trusses, beams and frames, heat transfer, and structural dynamics. Throughout the text, readers are shown step-by-step detailed analyses for finite element equations development. The text also demonstrates how FEM is programmed, with examples in MATLAB, CALFEM, and ANSYS allowing readers to learn how to develop their own computer code.

Suitable for everyone from first-time BSc/MSc students to practicing mechanical/structural engineers, *Essentials of the Finite Element Method* presents a complete reference text for the modern engineer.

- Provides complete and unified coverage of the fundamentals of finite element analysis
- Covers stiffness matrices for widely used elements in mechanical and civil engineering practice
- Offers detailed and integrated solutions of engineering examples and computer algorithms in ANSYS, CALFEM, and MATLAB

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