



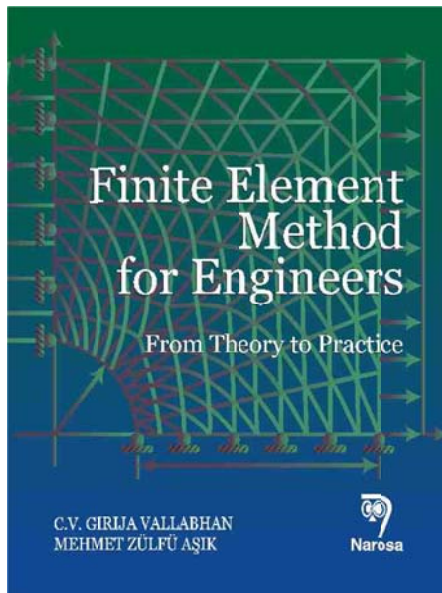
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TEXTBOOK

Narosa Publishing House is pleased to announce the release of



Finite Element Method for Engineers

From Theory to Practice

C. V. Girija Vallabhan
Mehmet Zulfu Asik

2011 292 pages 151Figs. 185mm x 240mm Paperback 978-81-7319-992-9 Rs. 295.00

Finite Element Method for Engineers: From Theory to Practice, while emphasizing problems in solid mechanics with numerous examples, explains the theory in four fundamental steps with a flow chart to develop equations for the finite element models and the associated computer programs. The theory is presented using energy principles in solid mechanics and towards the end, the methodology is explained using the weak-form of the Galerkin method so that the method can be used to solve flow problems and even some differential equations.

KEY FEATURES:

- With basic knowledge of strength of materials, self-learn the finite element method.
- Simple subroutines given from which a beginner can write codes in a suitable computer language.
- One can write own finite element computer codes with the information provided.

CONTENTS: Preface / Abstract / A Special Acknowledgement / Introduction / Equations in Solid Mechanics / One-Dimensional Elements: C_0 -Continuity / Two Dimensional Problems-I: C_0 -Triangular Elements / Two Dimensional Problems-II: C_0 -Quadrilateral and Curved Elements / Axisymmetric Problems / Three Dimensional Stress Analysis / One-Dimensional Elements (Beam Elements): C_1 -Continuity / Application to Plate Bending Problems: C_1 -Continuity / Steady State Flow Problem / Appendices / Index.

READERSHIP: Senior Undergraduate and Graduate Students, Researchers and Professionals in Mechanical, Civil, Aerospace Engineering and Mathematics

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