



Concepts and Applications of Finite Element Analysis, 4th Edition

By Robert D. Cook, David S. Malkus, Michael E. Plesha, Robert J. Witt

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This book has been thoroughly revised and updated to reflect developments since the third edition, with an emphasis on structural mechanics. Coverage is up-to-date without making the treatment highly specialized and mathematically difficult. Basic theory is clearly explained to the reader, while advanced techniques are left to thousands of references available, which are cited in the text.

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Editorial Review

Review

Instructor's Manual available. -- *The publisher, John Wiley & Sons*

From the Publisher

A structural mechanical approach to finite element analysis, now in a new edition. Contains over 750 problems (many of them new), introduces matrix methods early on and includes Fortran algorithms for solving numerous problems. Emphasis is physical and practical, rather than mathematical, and advanced topics such as nonlinear material behavior and structural dynamics are given comprehensive treatment.

From the Back Cover

LEARN FINITE ELEMENT THEORY AND HOW TO APPLY IT

This book is an accessible introduction to finite element analysis.

The exposition moves gradually from simple concepts to more advanced theory, with the goal of making competent applications based on solid understanding. In addition to theory, considerable attention is given to practical matters: modeling for finite element analysis, checking computed results for errors, and revising an analysis as needed.

FEATURES:

- Basic theory is clearly explained.
- Includes over 500 analytical problems.
- Structural mechanics is emphasized.
- Dynamics, nonlinearity, and heat transfer are treated.
- Includes application examples with solution critiques.

ACCOMPANYING SOFTWARE:

Any finite element analysis software can be used with this book.

However, *VisualFEA* (ISBN 0471-21207-5) developed by Intuitive Software, Inc. is available from Wiley for packaging with this book.

VisualFEA is exceptionally easy-to-use and powerful finite element analysis software with computer-based training tools for teaching and learning the finite element method. For both Windows and Mac operating systems. (For those seeking more emphasis on implementation, Fortran coding is available as described in the Preface.)

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