



Fundamental Finite Element Analysis and Applications: with Mathematica and Matlab Computations

By M. Asghar Bhatti

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*Support website (www.wiley.com/go/bhatti) includes complete sets of Mathematica and Matlab implementations for all examples presented in the text. Also included on the site are problems designed for self-directed labs using commercial FEA software packages ANSYS and ABAQUS.

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By M. Asghar Bhatti Bibliography

- Sales Rank: #1371862 in Books
- Published on: 2005-02-04
- Original language: English
- Number of items: 1
- Dimensions: 9.49" h x 1.60" w x 7.80" l, 3.07 pounds
- Binding: Hardcover
- 720 pages



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Editorial Review

Review

"The book is an innovative, hands-on and practical introduction to the finite element method that provides a powerful tool for learning this essential analytic method." (Zentralblatt MATH 2016)

From the Back Cover

A unique, hands-on introduction to the Finite Element Method

Fundamental Finite Element Analysis and Applications: with Mathematica® and MATLAB® Computations is an innovative, practical guide to discovering the Finite Element Method (FEM). Providing a helpful balance between theory and application, it presents the FEM as a tool to find approximate solutions of differential equations, making it a useful resource for students from a variety of disciplines.

Using a unique combination of live Mathematica® and MATLAB® implementations, along with problems in both ANSYS® and ABAQUS® formats, this hands-on book reveals the logic behind the equations to facilitate a full understanding of methods and solutions. In nine convenient chapters, Fundamental Finite Element Analysis and Applications: with Mathematica® and MATLAB® Computations covers:

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- Trusses, Beams, and Frames
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- Mapped Elements
- Analysis of Elastic Solids
- Transient Problems
- p-Formulation

An associated Web site (wiley.com/go/bhatti) includes interactive application files and notebooks for Mathematica®, MATLAB®, ANSYS®, and ABAQUS®, with expanded exercises to use with the book.

Fundamental Finite Element Analysis with Mathematica® and MATLAB® Computations is a clear and accessible learning tool for senior undergraduate and graduate-level students.

About the Author

M. Asghar Bhatti, PhD, is Associate Professor in the Department of Civil and Environmental Engineering at The University of Iowa, Iowa City.

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