



Introduction to Finite Element Analysis and Design

By Nam-Ho Kim, Bhavani V. Sankar

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Finite Element Method (FEM) is one of the numerical methods of solving differential equations that describe many engineering problems. This new book covers the basic theory of FEM and includes appendices on each of the main FEA programs as reference. It introduces the concepts so that engineers can use the method efficiently and interpret the results properly. They'll learn about one-dimensional finite elements, including truss and beam elements, as well as two and three dimensional finite elements. Numerous examples are also included using ANSYS, ABAQUS, NASTRAN, Pro/Engineer, and I-DEAS. This approach will help engineers develop a thorough understanding of the theory behind FEM as well as its application.

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Bibliography

- Sales Rank: #637855 in Books
- Published on: 2008-10-20
- Original language: English
- Number of items: 1
- Dimensions: 9.92" h x .63" w x 6.93" l, 1.30 pounds
- Binding: Paperback
- 432 pages



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