



# Finite Elements for Electrical Engineers

By Peter P. Silvester, Ronald L. Ferrari

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**Finite Elements for Electrical Engineers** By Peter P. Silvester, Ronald L. Ferrari

This third edition of the principal text on the finite element method for electrical engineers and electronics specialists presents the method in a mathematically undemanding style, accessible to undergraduates who may be encountering it for the first time. Like the earlier editions, it begins by deriving finite elements for the simplest familiar potential fields, and then formulates finite elements for a wide range of applied electromagnetics problems. These include wave propagation, diffusion, and static fields; open-boundary problems and nonlinear materials; axisymmetric, planar and fully three-dimensional geometries; and scalar and vector fields. A wide selection of demonstration programs allows the reader to follow the practical use of the methods. Besides providing all that is needed for the beginning undergraduate student, this textbook is also a valuable reference text for professional engineers and research students.

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### **Editorial Review**

#### **Review**

"...a clear, detailed introduction to finite-element analysis...suitable for use as a text in a graduate electrical engineering course. It is also an excellent reference for all electrical engineers who want to understand finite-element analysis well enough to write or modify their own finite-element codes." IEEE Antennas and Propagation Magazine

#### **From the Back Cover**

This is the third edition of the principal text on the finite element method, which has become a major solution technique for problems of engineering electromagnetics. It presents the method in a mathematically undemanding style, accessible to undergraduates who may be encountering it for the first time, but the scope is sufficiently broad as to be equally suitable for use by graduate and professional engineers.

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