



# An Introduction to the Finite Element Method with Applications to Nonlinear Problems

*Robert E. White*

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**An Introduction to the Finite Element Method with Applications to Nonlinear Problems** Robert E. White

A graduate-level text that shows how to write finite element programs or alter existing codes. Surveys techniques for solving non-linear problems, including incompressible viscous fluid flow and non-linear heat transfer problems. Presents the finite element method (FEM), explaining how to approximate solutions to second order linear and non-linear partial differential equations. Also treats error estimate and non-linear algorithms. Offers numerous exercises, illustrations and computer programs.



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