



The Finite Element Method and Applications in Engineering Using ANSYS®

By *Erdogan Madenci, Ibrahim Guven*

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- Fundamentals and analysis capabilities of ANSYS®
- Fundamentals of discretization and approximation functions
- Modeling techniques and mesh generation in ANSYS®
- Weighted residuals and minimum potential energy
- Development of macro files
- Linear structural analysis
- Heat transfer and moisture diffusion
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- Advanced subjects such as submodeling, substructuring, interaction with external files, and modification of ANSYS®-GUI

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