



# ILLINOIS INSTITUTE OF TECHNOLOGY



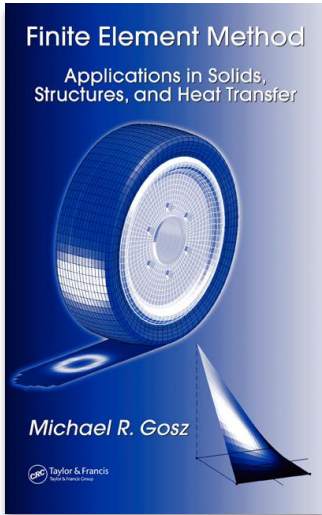
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**Dr. Mike Gosz** has condensed the basic mathematics, concepts, and applications into a simple and easy-to-understand reference.

This book demystifies the assumptions made, the boundary conditions chosen, and whether or not proper failure criteria are used. It reviews the basic math underlying FEM, including matrix algebra, the Taylor series expansion and divergence theorem, vectors, tensors, and mechanics of continuous media.

**Walking you through the essential steps of FEM, this hands-on guide:**



- Offers a thorough review of the mathematics necessary to learn and apply the finite element method with confidence
- Includes over 100 high-quality illustrations generated using MATLAB® as well as end-of-chapter problems
- Illustrates the discussion with 10 case studies that provide practical experience applying FEM

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