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Finite Element Method: Applications in Solids, Structures, and Heat Transfer navigates through linear, linear dynamic, and nonlinear finite elements with an emphasis on building confidence and familiarity with the method, not just the procedures. It demystifies the assumptions made, the boundary conditions chosen, and whether or not proper failure criteria are used. It reviews the basic math underlying FEM and explores a wide range of applications. The author illustrates the material with case studies, considers appropriate solution strategies, and warns against common pitfalls. Interactive virtual reality modeling language files are available for download from the Internet.