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The finite element method has become the dominant tool of analysis in many industrial fields of engineering, particularly in mechanical and aerospace engineering. This process requires significant computational work divided into several distinct phases. This book provides engineers with a walk-through of this process from the physical model to the computed solution. The author describes the transformation of the physical problem into a mathematical model, reduction of the model to a more efficient, solvable form, and the solution of the problem using specific computational techniques. This is an invaluable guide for practicing engineers who must apply the finite element method to their daily work.