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Concepts and applications of finite element analysis: Edition 4th ed. Author(s) Cook, Robert D; Malkus, David S; Plesha, Michael E; Witt, Robert J: Publication New York, NY : John Wiley & Sons, 2002. -

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719 p. Subject code 531.2: Subject category Other Fields of Physics: Keywords structural analysis (engineering); finite element method: Abstract

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Finite Element Method Basic Concepts And Applications  
Finite Element Analysis allows you to solve any engineering problem that is "unsolvable" otherwise. It also greatly increases the accuracy of your solutions. However, it takes time to perform FEA correctly, so using it for problems that can be solved otherwise may not be the best approach.

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Concepts - Summary - FEM uses the concept of piecewise polynomial interpolation. -By connecting elements together, the field quantity becomes interpolated over the entire structure in piecewise fashion. -A set of simultaneous algebraic equations at nodes.

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numerical method for solving partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

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Finite element method - Wikipedia

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