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The finite element method is such a widely used analysis-and-design technique that it is essential that undergraduate engineering students have a basic knowledge of the theory and applications of the technique.

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method was expanded from its structural beginnings to include heat transfer, groundwater flow, magnetic fields, and other areas. Large general-purpose FE software began to appear in the 1970s.

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(Problem 3.7 b, Fundamentals of Finite Element Analysis, David V. Hutton, 2004) 2- For the plane truss structure shown in the figure, determine the displacement of node 2 using the stiffness method.

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Dr. Hutton was my professor for M.E. 474 [Finite Element Analysis] elective counting towards a Masters in Mechanical Engineering. We worked off his notes in 1992 before he got his work published. Brilliant man and no less quality of technical publication.

## **Fundamentals of Finite Element Analysis: David V. Hutton**

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the Finite Element Method, Third Edition, McGraw-Hill, New York, 2006. Computer solutions to certain problems of Chapter 8 (see Chapter 13 problems) are also included at the end of Chapter 8. The instructor should make an effort to review the problems before assigning them.

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