

Problem 5.4

Given a one-dimensional elasticity problem as shown in Figure 5.20. The bar is constrained at both ends (A and C). Its cross-sectional area is constant ($A = 0.1 \text{ m}^2$) on segment AB and varies linearly $A = 0.05(x - 1) \text{ m}^2$ on BC. The Young's modulus is $E = 2 \times 10^7 \text{ Pa}$. A distributed load $b = 10 \text{ N m}^{-1}$ is applied along the left portion of the bar AB and a point force $P = 150 \text{ N}$ acts at point B. The geometry, material properties, loads and boundary conditions are given in Figure 5.20a. Use a three-node element on AB ($n_{em}=3$) and a two-node element on BC ($n_{em}=2$) as shown in Figure 20b. The dimensions in Figure 5.20 are in meters.

- Construct the element body force matrices and assemble them to obtain the global force matrix.
- Construct the element stiffness matrices and assemble them to obtain the global stiffness matrix.
- Find and sketch the finite element displacements.
- Find and sketch the finite element stresses.

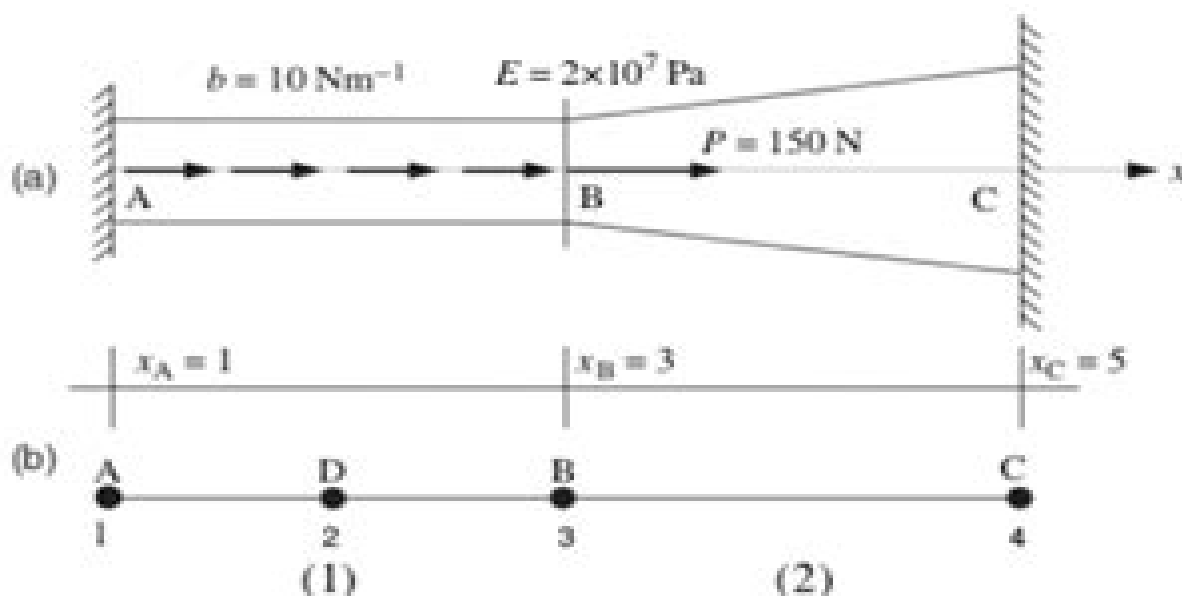


Figure 5.20 (a) Geometry, material properties, loads and boundary conditions for a bar with a variable cross-sectional area (b) the finite element model.

Finite Elements Fish Solution Manual

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The Finite Element Method Heinrich,1996-09-30 **Solution Manual to Accompany Concepts and Applications of Finite Element Analysis** Cook,R. Dennis Cook,Robert Davis Cook,1981-07 The Finite Element Method Using Matlab Solution Manual Miguel J. Bagajewicz,Young W Kwon,Hyochoong Bang,1996-09 *Solution Manual to Finite Element Analysis Fundamentals* by Richard H. Gallagher Prodyot K. Basu,Richard H. Gallagher,1975 *Finite Elements for Engineers with Ansys Applications* Mohamed S. Gadala,2020-07-09 The finite element method FEM is indispensable in modeling and simulation in various engineering and physical systems including structural analysis stress strain fluid mechanics heat transfer dynamics eigenproblems design optimization sound propagation electromagnetics and coupled field problems This textbook integrates basic theory with real life design oriented problems using ANSYS the most commonly used computational software in the field For students as well as practicing engineers and designers each chapter is highly illustrated and presented in a step by step manner Fundamental concepts are presented in detail with reference to easy to understand worked examples that clearly introduce the method before progressing to more advanced content Included are step by step solutions for project type problems using modelling software special chapters for modelling and the use of ANSYS and Workbench programs and extensive sets of problems and projects round out each chapter *Solutions Manual to Accompany a First Course in the Finite Element Method* William B. Bickford,1990 Solutions Manual for Introductory Finite Element Method Chandrakant S. Desai,Tribikram Kundu,2001-09 **Sea Grant Publications Index** ,1977

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