# Solution Manual for Finite Element Analysis: Theory and Application with ANSYS, 5th Edition

#### Chapter 1

#### 1.1

(a) Using two elements

$$A(y) = 0.25 - 0.0125y$$

$$A_1 = 0.25 \text{ in}^2$$

$$A_2 = 0.1875 \text{ in}^2$$

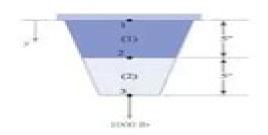
$$K_{eq} = \frac{(A_{i+1} + A_i)E}{2\ell}$$

$$K_1 = \frac{(0.25 + 0.1875)(10.4 \times 10^6)}{2(5)} = 455,000 \frac{\text{lb}}{\text{in}}$$

$$K_2 = \frac{(0.1875 + 0.125)(10.4 \times 10^6)}{2(5)} = 325,000 \frac{\text{lb}}{\text{in}}$$

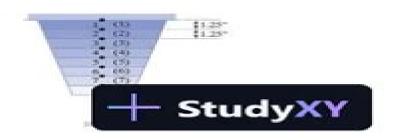
$$10^3 \begin{bmatrix} A_0^2 5 & -A_0^2 5 \\ -A_0^2 5 & 455 + 325 & -325 \\ -325 & 325 \end{bmatrix} \begin{bmatrix} u_1 \\ u_2 \\ u_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 1000 \end{bmatrix}$$

$$u_1 = 0, \quad u_2 = 0.002197 \text{ in} \quad u_3 = 0.005274 \text{ in}$$



(b)

$$A_1 = 0.25 \text{ in}^2$$
 $A_2 = 0.234375 \text{ in}^2$ 
 $A_3 = 0.21875 \text{ in}^2$ 
 $A_4 = 0.203125 \text{ in}^2$ 
 $A_5 = 0.1875 \text{ in}^2$ 
 $A_6 = 0.171875 \text{ in}^2$ 
 $A_7 = 0.15625 \text{ in}^2$ 



## **Theory And Application Through Ansys Solution Manual**

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#### **Theory And Application Through Ansys Solution Manual:**

Finite Element Analysis Saeed Moaveni, 2001 The Finite Element Method G.R. Liu.S. S. Ouek.2013-08-07 Written for practicing engineers and students alike this book emphasizes the role of finite element modeling and simulation in the engineering design process It provides the necessary theories and techniques of the FEM in a concise and easy to understand format and applies the techniques to civil mechanical and aerospace problems Updated throughout for current developments in FEM and FEM software the book also includes case studies diagrams illustrations and tables to help demonstrate the material Plentiful diagrams illustrations and tables demonstrate the material Covers modeling techniques that predict how components will operate and tolerate loads stresses and strains in reality Full set of PowerPoint presentation slides that illustrate and support the book available on a companion website Structural Analysis Systems A. Niku-Lari, 1986 Very Good No Highlights or Markup all pages are intact The Finite Element Method in Engineering Singiresu S. Rao, 2017-10-31 The Finite Element Method in Engineering Sixth Edition provides a thorough grounding in the mathematical principles behind the Finite Element Analysis technique an analytical engineering tool originated in the 1960 s by the aerospace and nuclear power industries to find usable approximate solutions to problems with many complex variables Rao shows how to set up finite element solutions in civil mechanical and aerospace engineering applications. The new edition features updated real world examples from MATLAB Ansys and Abagus and a new chapter on additional FEM topics including extended FEM X FEM Professional engineers will benefit from the introduction to the many useful applications of finite element analysis Includes revised and updated chapters on MATLAB Ansys and Abagus Offers a new chapter Additional Topics in Finite Element Method Includes discussion of practical considerations errors and pitfalls in FEM singularity elements Features a brief presentation of recent developments in FEM including extended FEM X FEM augmented FEM A FEM and partition of unity FEM POUFEM Features improved pedagogy including the addition of more design oriented and practical examples and problems Covers real life applications sample review questions at the end of most chapters and updated references A Collection of Technical Papers ,1982 Computers in Engineering, 1984: Robotics ,1984

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