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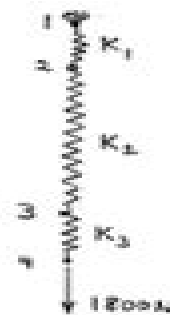
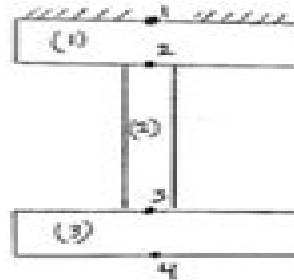
$$K = \frac{AE}{L}$$

$$K_1 = K_3 = \frac{(0.08)(0.006)(68.9 \times 10^9)}{0.025}$$

$$K_1 = K_3 = 1.32288 \times 10^9 \frac{N}{m}$$

$$K_2 = \frac{(0.02)(0.006)(68.9 \times 10^9)}{0.1}$$

$$K_2 = 0.08268 \times 10^9 \frac{N}{m}$$



$$\begin{bmatrix} 1 & 0 \\ 1.32288 & -1.32288 \\ 0 & 1.32288 + 0.08268 \\ -1.32288 & -0.08268 \\ 0 & 0.08268 + 1.32288 \\ 0 & -1.32288 \end{bmatrix} \begin{Bmatrix} u_1 \\ u_2 \\ u_3 \\ u_4 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 0 \\ 1800 \end{Bmatrix}$$

$$\begin{bmatrix} 1.40556 & -0.08268 & 0 \\ -0.08268 & 1.40556 & -1.32288 \\ 0 & -1.32288 & 1.32288 \end{bmatrix} \begin{Bmatrix} u_2 \\ u_3 \\ u_4 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 1800 \times 10^{-9} \end{Bmatrix}$$

$$u_2 = 1.360668 \times 10^{-6} \text{ m}$$

$$u_3 = 2.313135 \times 10^{-5} \text{ m}$$

$$u_4 = 2.449202 \times 10^{-5} \text{ m}$$

$$\sigma^{(1)} = E \frac{u_2 - u_1}{L} = (68.9 \times 10^9) \frac{(1.360668 \times 10^{-6} - 0)}{0.025} = 3750000 = 3.75 \text{ MPa}$$

as a check:  $\sigma^{(1)} = \frac{F}{A} = \frac{1800 \text{ N}}{(0.08)(0.006)} = 3.75 \text{ MPa}$

$$\sigma^{(2)} = E \frac{u_3 - u_2}{L} = (68.9 \times 10^9) \frac{(2.313135 \times 10^{-5} - 1.360668 \times 10^{-6})}{0.1} = 15 \text{ MPa}$$

as a check:  $\sigma^{(2)} = \frac{1800 \text{ N}}{(0.02)(0.006)} = 15 \text{ MPa}$

$$\sigma^{(3)} = E \frac{u_4 - u_3}{L} = (68.9 \times 10^9) \frac{(2.449202 - 2.313135) \times 10^{-5}}{0.025} = 3.75 \text{ MPa}$$

# Finite Element Analysis Saeed Moaveni Solution

**Yijin Wang**



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that cover artificial intelligence sustainability and new technologies      *Solution Manual to Accompany Concepts and Applicat Ions of Finite Element Analysis* Cook,R. Dennis Cook,Robert Davis Cook,1981-07      **The British National Bibliography** Arthur James Wells,2009      **Proceedings of ISES World Congress 2007 (Vol.1-Vol.5)** D. Yogi Goswami,Yuwen Zhao,2009-09-01 ISES Solar World Congress is the most important conference in the solar energy field around the world The subject of ISES SWC 2007 is Solar Energy and Human Settlement it is the first time that it is held in China This book consists of 619 papers and 23 invited papers whose authors are top scientists and experts in the world ISES SWC 2007 covers all aspects of renewable energy including PV collector solar thermal electricity wind biomass energy and so on Therefore many papers cover more than one research area and bring forward new cross disciplinary technology including BIPV solar hydrogen production and polytechnic system which bring forth the state of art of solar energy technology

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