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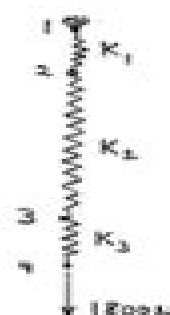
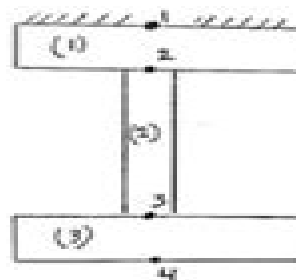
$$K = \frac{AE}{L}$$

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

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

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

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



$$\frac{1}{10} \begin{bmatrix} 1 & 0 \\ 1.32288 & -1.32288 \\ 0 & 1.32288 + 0.08268 \\ -1.32288 & -0.08268 \\ 0 & 0.08268 + 1.32288 \\ 0 & -1.32288 \end{bmatrix} \begin{Bmatrix} u_1 \\ u_2 \\ u_3 \\ u_4 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 0 \\ 0 \\ 1800 \end{Bmatrix}$$

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

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

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

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

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

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

Arthur James Wells



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Sustainability Challenges and Delivering Practical Engineering Solutions Gasim Hayder Ahmed Salih,Rashid A. Saeed,2023-05-08 This book highlights the recent findings and advances in science engineering technology and sustainability issues It aims to discuss reflect and share experience in addressing the findings in science engineering technology and sustainability The book aims to report the various interrelated disciplines from different institutions to discuss reflect and share technology and experience in addressing new findings and strategies This book presents the proceedings of the Science Engineering Technology and Sustainability International Conference SETS2021 which was held virtually as sustainable virtual conferences become the new normal during December 23 25 2021 This book is presenting latest research findings and it is suitable for researchers postgraduate students professionals and experts The book includes interesting and top research in fuzzy modeling and decision making applications in computer science Several chapters address trending research about bioremediation and

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The British National Bibliography Arthur James Wells,2009 **Solution Manual to Accompany Concepts and Applications of Finite Element Analysis** Cook,R. Dennis Cook,Robert Davis Cook,1981-07

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figures revised and redrawn for clarity

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Finite Element Method Păcurar Răzvan, 2018-02-28 The book entitled Finite Element Method Simulation Numerical Analysis and Solution Techniques aims to present results of the applicative research performed using FEM in various engineering fields by researchers affiliated to well known universities The book has a profound interdisciplinary character and is mainly addressed to researchers PhD students graduate and undergraduate students teachers engineers as well as all other readers interested in the engineering applications of FEM I am confident that readers will find information and challenging topics of high academic and scientific level which will encourage them to enhance their knowledge in this engineering domain having a continuous expansion The applications presented in this book cover a broad spectrum of finite element applications starting from mechanical electrical or energy production and finishing with the successful simulation of severe meteorological phenomena

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