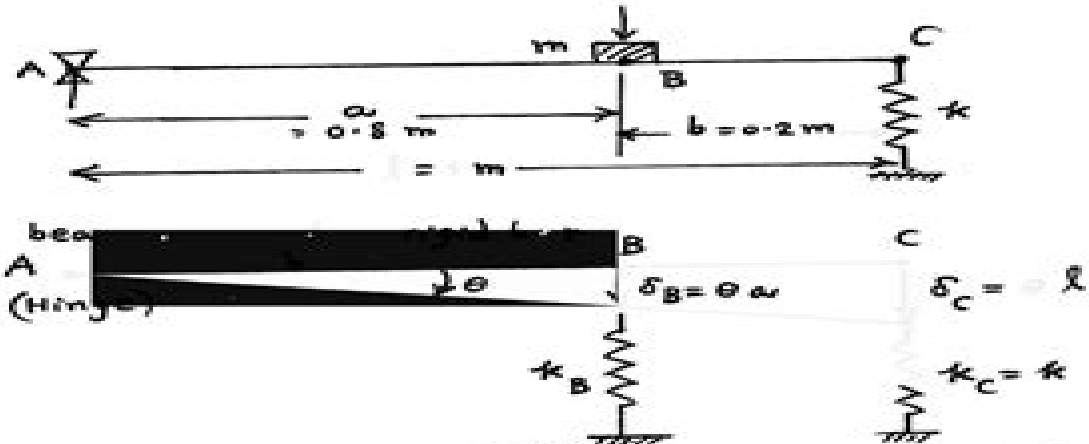


2.55

Equivalent stiffness of spring k at location of mass m :



Assume the beam as a rigid bar ABC hinge at point A to find equivalent stiffness at point B. The equivalent spring constant of k located at B be k_B . Then we consider the moments about point A by the spring force due to k at C and the force due to k_B at B:

$$k_C \delta_C l = k_B \delta_B a$$

$$\text{i.e., } k_B = k_C \frac{\delta_C}{\delta_B} \frac{l}{a} = k \frac{\theta l}{\theta a} \cdot \frac{l}{a} = \frac{k l^2}{a}$$

$$= 10000 \left(\frac{1}{0.8^2} \right) = 15625 \text{ N/m}$$

Spring constant of the beam at location m :

For simplicity, we assume that the spring at C acts as a simple support. This permits the computation of

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C. Beards



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discussion of the wave analysis approach as opposed to the modal based approach to mechanical vibrations in structures The book begins with deriving the equations of motion using the Newtonian approach based on various sign conventions before comprehensively covering the wave vibration analysis approach It concludes by exploring passive and active feedback control of mechanical vibration waves in structures The author discusses vibration analysis and control strategies from a wave standpoint and examines the applications of the presented wave vibration techniques to structures of various complexity Readers will find in the book A thorough introduction to mechanical wave vibration analysis including the governing equations of various types of vibrations Comprehensive explorations of waves in simple rods and beams including advanced vibration theories Practical discussions of coupled waves in composite and curved beams Extensive coverage of wave mode conversions in built up planar and spatial frames and networks Complete treatments of passive and active feedback wave vibration control MATLAB scripts both in the book and in a companion solutions manual for instructors Mechanical Wave Vibrations Analysis and Control is written as a textbook for both under graduate and graduate students studying mechanical aerospace automotive and civil engineering It will also benefit researchers and educators working in the areas of vibrations and waves

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Mechanical Vibration Analysis and Computation D. E. Newland, 2013-04-26 Focusing on applications rather than rigorous proofs this volume is suitable for upper level undergraduates and graduate students concerned with vibration problems In addition it serves as a practical handbook for performing vibration calculations An introductory chapter on fundamental concepts is succeeded by explorations of frequency response of linear systems and general response properties matrix analysis natural frequencies and mode shapes singular and defective matrices and numerical methods for modal analysis Additional topics include response functions and their applications discrete response calculations systems with symmetric matrices continuous systems and parametric and nonlinear effects The text is supplemented by extensive appendices and answers to selected problems This volume functions as a companion to the author's introductory volume on random vibrations see below Each text can be read separately and together they cover the entire field of mechanical vibrations analysis including random and nonlinear vibrations and digital data analysis

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Solutions Manual to Accompany Applied Mechanical Vibrations David V. Hutton, 1981

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