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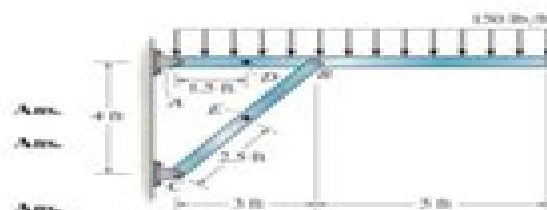
***1-104.** Determine the resultant internal loadings acting on the cross sections located through points *D* and *E* of the frame.

Segment *AD*:

$$\begin{aligned} \rightarrow + \Sigma F_x &= 0; & N_D - 1.2 &= 0; & N_D &= 1.20 \text{ kip} \\ + \uparrow \Sigma F_y &= 0; & V_D + 0.225 + 0.4 &= 0; & V_D &= -0.625 \text{ kip} \\ \zeta + \Sigma M_D &= 0; & M_D + 0.225(0.75) + 0.4(1.5) &= 0 \\ & & M_D &= -0.769 \text{ kip}\cdot\text{ft} \end{aligned}$$

Segment *CE*:

$$\begin{aligned} \nearrow + \Sigma F_x &= 0; & N_E + 2.0 &= 0; & N_E &= -2.00 \text{ kip} \\ \searrow + \Sigma F_y &= 0; & V_E &= 0 \\ \zeta + \Sigma M_E &= 0; & M_E &= 0 \end{aligned}$$



Ans.

Ans.

Ans.

Ans.

Ans.

Ans.

***1-105.** The pulley is held fixed to the 20-mm-diameter shaft using a key that fits within a groove cut into the pulley and shaft. If the suspended load has a mass of 50 kg, determine the average shear stress in the key along section *a-a*. The key is 5 mm by 5 mm square and 12 mm long.

$$\zeta + \Sigma M_D = 0; \quad F(100) - 490.5(75) = 0$$

$$F = 3678.75 \text{ N}$$

$$\tau_{\text{avg}} = \frac{V}{A} = \frac{3678.75}{(0.005)(0.012)} = 61.3 \text{ MPa}$$



Ans.

Hibler Solution 8 Edition

RJ Shavelson



Hibler Solution 8 Edition:

Dynamics - Formulas and Problems Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics **Engineering Applications of Dynamics** Dean C. Karnopp, Donald L. Margolis, 2007-12-14 A GROUNDBREAKING TEXT THAT BRIDGES THE GAP BETWEEN THEORETICAL DYNAMICS AND INDUSTRY APPLICATIONS Designed to address the perceived failure of introductory dynamics courses to produce students capable of applying dynamic principles successfully both in subsequent courses and in practice Engineering Applications of Dynamics adopts a much needed practical approach designed to make the subject not only more relevant but more interesting as well Written by a highly respected team of authors the book is the first of its kind to tie dynamics theory directly to real world situations By touching on complex concepts only to the extent of illustrating their value in real world applications the authors provide students with a deeper understanding of dynamics in the engineering of mechanical systems Topics of interest include The formulation of equations in forms suitable for computer simulation Simulation examples of real engineering systems Applications to vehicle dynamics Lagrange's equations as an alternative formulation procedure Vibrations of lumped and distributed systems Three dimensional motion of rigid bodies with emphasis on gyroscopic effects Transfer functions for linearized dynamic systems Active control of dynamic systems A Solutions Manual with detailed solutions for all problems in this book is available at the Web site www.wiley.com/college/karnopp **Mechanics of Materials - Formulas and Problems** Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-11-25 This book contains the most important formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Stress Strain Hooke's Law Tension and Compression in Bars Bending of Beams Torsion Energy Methods Buckling of Bars Hydrostatics **PPI PE Structural 16-Hour Practice Exam for Buildings, 6th Edition - 1 Year** Joseph S Schuster, 2022-06-21 PE Structural 16 Hour Practice Exam for Buildings Sixth Edition offers comprehensive practice for the NCEES PE Structural SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural 16 Hour Practice Exam for Buildings Sixth Edition features include The Most Realistic Practice for the PE Structural Exam Two 40 problem multiple choice breadth exams Two four essay depth exams consistent with the NCEES PE Structural exam's format and

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Engineering Mechanics R. C. Hibbeler, 2010 This volume presents the theory and applications of engineering mechanics Discussion of the subject areas of statics and dynamics covers such topics as engineering applications of the principles of static equilibrium of force systems acting on particles and rigid bodies structural analysis of trusses frames and machines forces in beams dry friction centroids and moments of inertia in addition to kinematics and kinetics of particles and rigid bodies Newtonian laws of motion work and energy and linear and angular momentum are also presented Intermediate Solid Mechanics Marko V. Lubarda, Vlado A. Lubarda, 2020-01-09 Based on class tested material this concise yet comprehensive treatment of the fundamentals of solid mechanics is ideal for those taking single semester courses on the subject It provides interdisciplinary coverage of the key topics combining solid mechanics with structural design applications mechanical behavior of materials and the finite element method Part I covers basic theory including the analysis of stress and strain Hooke's law and the formulation of boundary value problems in Cartesian and cylindrical coordinates Part II covers applications from solving boundary value problems to energy methods and failure criteria two dimensional plane stress and strain problems antiplane shear contact problems and much more With a wealth of solved examples assigned exercises and 130 homework problems and a solutions manual available online this is ideal for senior undergraduates studying solid mechanics and graduates taking introductory courses in solid mechanics and theory of elasticity across aerospace civil and mechanical engineering and materials science **The Publishers' Trade List Annual**, 1985 **Engineering Education**, 1986 *Books in Print*, 1977 *McGraw-Hill Encyclopedia of Science & Technology: Sor-sup*, 2002 This resource provides in depth coverage of major scientific and technological developments It

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