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\*1–92. The compound wooden beam is connected together by a bolt at  $B$ . Assuming that the connections at  $A$ ,  $B$ ,  $C$ , and  $D$  exert only vertical forces on the beam, determine the required diameter of the bolt at  $B$  and the required outer diameter of its washers if the allowable tensile stress for the bolt is  $(\sigma_t)_{\text{allow}} = 150 \text{ MPa}$  and the allowable bearing stress for the wood is  $(\sigma_b)_{\text{allow}} = 28 \text{ MPa}$ . Assume that the hole in the washers has the same diameter as the bolt.

From FBD (a):

$$C_u + \Sigma M_B = 0; \quad F_B(4.5) + 1.5(3) + 2(1.5) - F_C(6) = 0$$

$$4.5 F_B - 6 F_C = -7.5 \quad (1)$$

From FBD (b):

$$C_u + \Sigma M_D = 0; \quad F_B(5.5) - F_C(4) - 3(2) = 0$$

$$5.5 F_B - 4 F_C = 6 \quad (2)$$

Solving Eqs. (1) and (2) yields

$$F_B = 4.40 \text{ kN}; \quad F_C = 4.55 \text{ kN}$$

For bolt:

$$\sigma_{\text{allow}} = 150(10^6) = \frac{4.40(10^3)}{\frac{\pi}{4}(d_B)^2}$$

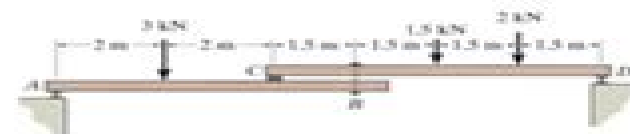
$$d_B = 0.00611 \text{ m}$$

$$= 6.11 \text{ mm}$$

For washer:

$$\sigma_{\text{allow}} = 28(10^6) = \frac{4.40(10^3)}{\frac{\pi}{4}(d_w^2 - 0.00611^2)}$$

$$d_w = 0.0154 \text{ m} = 15.4 \text{ mm}$$



Ans.

Ans.

\*1–93. The assembly is used to support the distributed loading of  $w = 500 \text{ lb/ft}$ . Determine the factor of safety with respect to yielding for the steel rod  $BC$  and the pins at  $B$  and  $C$  if the yield stress for the steel in tension is  $\sigma_y = 36 \text{ ksi}$  and in shear  $\tau_y = 18 \text{ ksi}$ . The rod has a diameter of 0.40 in., and the pins each have a diameter of 0.30 in.

For rod  $BC$ :

$$\sigma = \frac{P}{A} = \frac{1.667}{\frac{\pi}{4}(0.4^2)} = 13.26 \text{ ksi}$$

$$\text{F. S.} = \frac{\sigma_y}{\sigma} = \frac{36}{13.26} = 2.71$$

For pins  $B$  and  $C$ :

$$r = \frac{V}{A} = \frac{0.8333}{\frac{\pi}{4}(0.3^2)} = 11.79 \text{ ksi}$$

$$\text{F. S.} = \frac{\tau_y}{r} = \frac{18}{11.79} = 1.53$$



Ans.

Ans.



# Solution Of Strength Of Materials 8th Hibbeler

**Sydney Allandale Urry**



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*Intermediate Solid Mechanics* Marko V. Lubarda, Vlado A. Lubarda, 2020-01-09 A concise yet comprehensive treatment of the fundamentals of solid mechanics including solved examples exercises and homework problems *Deformation and Fracture in Materials* Anoop Kumar Mukhopadhyay, Dhaneshwar Mishra, 2024-08-27 This book provides information on the basics of deformation and fracture in materials and on current state of the art experimental and numerical theoretical methods including data driven approaches in the deformation and fracture study of materials The blend of experimental test methods and numerical techniques to study deformation and fracture in materials is discussed In addition the application of data driven approaches in predicting material performance in different types of loading and loading environments is illustrated Features Includes clear insights on deformation and fracture in materials with clear explanations of mechanics and defects relating to them Provides effective treatments of modern numerical simulation methods Explores applications of data driven approaches such as artificial intelligence machine learning and computer vision Reviews simple and basic experimental techniques to understand the concepts of deformation and fracture in materials Details modeling and simulation strategies of mechanics of materials at different scales This book is aimed at researchers and graduate students in fracture mechanics finite element methods and materials science Challenges, Opportunities and Solutions in Structural Engineering and Construction Nader Ghafoori, 2009-10-29 Challenges Opportunities and Solutions in Structural Engineering and Construction addresses the latest developments in innovative and integrative technologies and solutions in structural engineering and construction including Concrete masonry steel and composite structures Dynamic impact and earthquake engineering Bridges and *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 **Subject Guide to Books in Print**, 1993 *Forthcoming Books* Rose Arny, 2003-04 **Books in Print**, 1981 Understanding and Using Structural Concepts Tianjian Ji, Adrian J. Bell, Brian R. Ellis, 2015-12-02 Understanding and Using Structural Concepts Second Edition provides numerous demonstrations using physical models and practical examples A significant amount of material not found in current textbooks is included to enhance the understanding of structural concepts and stimulate interest in learning creative thinking and design This is achieved **Applied Mechanics Reviews**, 1976 **Mechanics of Materials** R. C. Hibbeler, 2011 Mechanics of Materials 8e is intended for undergraduate Mechanics of Materials courses in Mechanical Civil and Aerospace Engineering departments Containing Hibbeler's hallmark student oriented features this text is in four color with a

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