

P1.6 Axial loads are applied with rigid bearing plates to the solid cylindrical rods shown in Figure P1.6/7. One load of $P = 1,500$ lb is applied to the assembly at A , two loads of $Q = 900$ lb are applied at B , and two loads of $R = 1,300$ lb are applied at C . The diameters of rods (1), (2), and (3) are $d_1 = 0.625$ in., $d_2 = 0.500$ in., and $d_3 = 0.875$ in. Determine the axial normal stress in each of the three rods.



FIGURE P1.6/7

Solution

Cut an FBD through rod (1). The FBD should include the free end of the assembly at A . We will assume that the internal force in rod (1) is tension. From equilibrium, the force in rod (1) is

$$\Sigma F_x = -P + F_1 = 0$$

$$\therefore F_1 = P = 1,500 \text{ lb} = 1,500 \text{ lb (T)}$$



Use the given diameter to calculate the cross-sectional area of rod (1):

$$A_1 = \frac{\pi}{4} d_1^2 = \frac{\pi}{4} (0.625 \text{ in.})^2 = 0.3068 \text{ in.}^2$$

The normal stress in rod (1) is

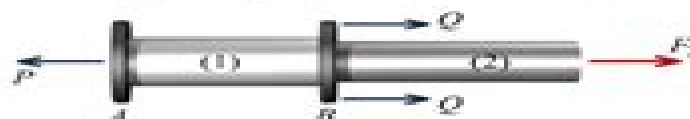
$$\sigma_1 = \frac{F_1}{A_1} = \frac{1,500 \text{ lb}}{0.3068 \text{ in.}^2} = 4,889.24 \text{ psi} = \boxed{4,890 \text{ psi (T)}}$$

Ans.

Cut an FBD through rod (2). The FBD should include the free end of the assembly at A . We will assume that the internal force in rod (2) is tension. From equilibrium, the force in rod (2) is

$$\Sigma F_x = -P + 2Q + F_2 = 0$$

$$\therefore F_2 = P - 2Q = 1,500 \text{ lb} - 2(900 \text{ lb}) = -300 \text{ lb} = 300 \text{ lb (C)}$$



Use the given diameter to calculate the cross-sectional area of rod (2):

$$A_2 = \frac{\pi}{4} d_2^2 = \frac{\pi}{4} (0.500 \text{ in.})^2 = 0.1963 \text{ in.}^2$$

The normal stress in rod (2) is

$$\sigma_2 = \frac{F_2}{A_2} = \frac{-300 \text{ lb}}{0.1963 \text{ in.}^2} = -1,527.89 \text{ psi} = \boxed{1,528 \text{ psi (C)}}$$

Ans.

Mechanics Of Materials 4th Edition Solution

Pir M. Toor, Joseph Barron



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Mechanical Behavior of Materials Thomas H. Courtney, 2005-12-16 This outstanding text offers a comprehensive treatment of the principles of the mechanical behavior of materials. Appropriate for senior and graduate courses, it is distinguished by its focus on the relationship between macroscopic properties, material microstructure, and fundamental concepts of bonding and crystal structure. The current second edition retains the original edition's extensive coverage of nonmetals while increasing coverage of ceramics, composites, and polymers that have emerged as structural materials in their own right and are now competitive with metals in many applications. It contains new case studies, includes solved example problems, and incorporates real life examples. Because of the book's extraordinary breadth and depth, adequate coverage of all of the material requires two full semesters of a typical three credit course. Since most curricula do not have the luxury of allocating this amount of time to mechanical behavior of materials, the text has been designed so that material can be culled or deleted with ease. Instructors can select topics they wish to emphasize and are able to proceed at any level they consider appropriate.

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Professional Engineer, 1985 *Introduction to Materials Science and Engineering* Michael F. Ashby, Hugh Shercliff, David Cebon, 2023-08-01 *Introduction to Materials Science and Engineering: A Design Led Approach* is ideal for a first course in materials for mechanical, civil, biomedical, aerospace, and other engineering disciplines. The authors' systematic method includes first analyzing and selecting properties to match materials to design through the use of real world case studies, and then examining the science behind the material properties to better engage students whose jobs will be centered on design or applied industrial research. As with Ashby's other leading texts, the book emphasizes visual communication through material property charts and numerous schematics that better illustrate the origins of properties, their manipulation, and fundamental limits. Design led approach motivates and engages students in the study of materials science and engineering through real life case studies and illustrative applications. Requires a minimum level of math necessary for a first course in Materials Science and Engineering. Highly visual, full color graphics facilitate understanding of materials concepts and properties. Chapters on materials selection and design are integrated with chapters on materials fundamentals, enabling

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Applied Mechanics Reviews, 1973 The Publishers' Trade List Annual, 1987 Geodynamics Donald L. Turcotte, Gerald Schubert, 2002-03-25

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