

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.



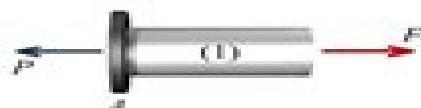
FIGURE P1.6/7

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

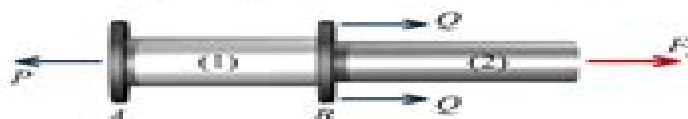
$$\sigma_1 = \frac{F_1}{A_1} = \frac{1,500 \text{ lb}}{0.3068 \text{ in.}^2} = 4,889.24 \text{ psi} = \boxed{4,890 \text{ psi (T)}}$$

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

**Michael F. Ashby, Hugh Shercliff, David
Cebon**



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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. Thermal Spray 2007: Global Coating Solutions: Proceedings of the 2007 International Thermal Spray Conference Edited by Basil R. Marple, Margaret M. Hyland, Yuk-Chiu Lau, Chang-Jiu Li, Rogerio S. Lima, Ghislain Montavon, Spon's Mechanical and Electrical Services Price Book 2020 AECOM, 2019-09-16 Spon's Mechanical and Electrical Services Price Book 2020 continues to be the most comprehensive and best annual services engineering price book currently available, providing detailed pricing information across the full range of mechanical and electrical services, together with higher level costs for a diverse range of systems and different building applications. Use the access code inside the front cover of the book to get set up with an ebook of this 2020 edition on the VitalSource Bookshelf platform, available for access and use until the end of December 2020. A number of new engineering features have been added. This year the lighting section has been entirely overhauled to accurately represent the latest industry standards in light fittings. The three exciting areas of development AECOM has this year identified in the MEP sector: battery storage systems, exposed services, and grid decarbonisation. Along with new items including MVHRs, district heating HIUs, and air source heat pumps. All the standard features you have come to expect from SPON'S MECHANICAL AND ELECTRICAL SERVICES PRICE BOOK are also included: considered essential for today's services cost professional: detailed materials prices, labour constants, labour costs, and measured work prices for mechanical and electrical works from above ground drainage to automatic transfer switches and circuit breakers to sprinkler systems; an extensive Approximate Estimating section for quick rule of thumb pricing of mechanical or electrical installations; together with elemental services costs for different types and standards of buildings; full details of wage rates, daywork, and cost indices on a national and Central London basis; an overhauled index and guidance notes; updates free of charge twice a year; see inside for registration details. Updates are available online at www.pricebooks.co.uk *Engineering Solutions for Sustainability* Jeffrey W. Fergus, Brajendra Mishra, Dayan Anderson, Emily Allyn

Sarver, Neale R. Neelameggham, 2015-07-29 This book contains a collection of papers presented at Engineering Solutions for Sustainability Materials and Resources II a special symposium organized as part of the TMS 2015 Annual Meeting the strategies for effective use of engineering solutions and the role of the global engineering community Authors share perspectives on the major engineering challenges that face our world today identify discuss and prioritize engineering solution needs and establish how these fit into developing global demand pressures for materials and human resources

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