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Mechanics of Materials: Ferdinand P. Beer, E. Russell ...

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Problem 1.5-1 A high-strength steel bar used in a large crane has diameter $d = 2.00$ in. (see figure). The steel has modulus of elasticity $E = 29 \times 10^6$ psi and Poisson's ratio $\nu = 0.29$. Because of clearance requirements, the diameter of the bar is limited to 2.001 in. when it is compressed by axial forces.

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 5 - 10 Sample Problem 5.2 SOLUTION:
• Replace the 10 kip load with equivalent force-couple system at D. Find reactions at B. • Section the beam and apply equilibrium analyses on resulting free-bodies.
 $\sum F_x = 0 \Rightarrow B_x = 10 \text{ kips}$
 $\sum F_y = 0 \Rightarrow B_y = 0$
 $\sum M_B = 0 \Rightarrow 10(1.5) - C(3) = 0 \Rightarrow C = 5 \text{ kips}$

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Mechanics of materials is pretty comprehensive for an introductory text and is an excellent choice to master the basics of the strength of materials, with a right mix of theory with example problems, and with answers in the back for many of problems. It is one of the best books related to mechanics of materials.

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In mechanics of materials, the strength of a material is its ability to withstand an applied load without failure or plastic deformation. The field of strength of materials deals with forces and deformations that result from their acting on a material.

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John T. DeWolf, Professor of Civil Engineering at the University of Connecticut, joined the Beer and Johnston team as an author on the second edition of Mechanics of Materials. John holds a B.S. degree in civil engineering from the University of Hawaii and M.E. and Ph.D. degrees in structural engineering from Cornell University.

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 7 - 4 Introduction • Plane Stress - state of stress in which two faces of the cubic element are free of stress. For the illustrated example, the state of stress is defined by $\sigma_x, \sigma_y, \tau_{xy}$ and $\sigma_z = \tau_{zx} = \tau_{zy} = 0$. • State of plane stress occurs in a thin plate subjected

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About the Author. John T. DeWolf, Professor of Civil Engineering at the University of Connecticut, joined the Beer and Johnston team as an author on the second edition of Mechanics of Materials. John holds a B.S. degree in civil engineering from the University of Hawaii and M.E. and Ph.D. degrees in structural engineering from Cornell University.

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