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Homework Problems | ME 323: Mechanics of Materials

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 2 - 14. Sample Problem 2.1. The rigid bar BDE is supported by two links AB and CD. Link AB is made of aluminum (E = 70 GPa) and has a cross-sectional area of 500 mm2. Link CD is made of steel (E = 200 GPa) and has a cross-sectional area of (600 mm2).

Third Edition MECHANICS OF MATERIALS

Mechanics of Materials 13-3d3 Stress and Strain Example 2 (FEIM): The maximum shear stress is most nearly (A)24 000 kPa (B)33 500 kPa (C)38 400 kPa (D)218 000 kPa Therefore, (C) is correct. In the previous example problem, the radius of Mohr's circle (τmax) was! " max =(30000 kPa)2+(24000 kPa)2! =38419 kPa(38400 kPa)

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FE Mechanics of Materials Review r T Tr J τ= τ= shear stress, force/length^2 T = applied torque, force·length r = distance from center to point of interest in cross-section (maximum is the total radius dimension) J = polar moment of inertia (see table at end of STATICS section in FE review manual), length^4 TL JG φ= φ= angle of twist, radians L = length of shaft

FE Review Mechanics of Materials - Auburn University

Solution to problem 1-27 in Hibbeler "Mechanics of Materials" Michael Jordan First NBA Game Full Highlights! Gets Standing Ovation in His NBA Debut!

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Strength of Materials | Review

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