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Third Edition MECHANICS OF MATERIALS

MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 2 - 21 Thermal Stresses • A temperature change results in a change in length or thermal strain There is no stress associated with the thermal strain unless the elongation is restrained by the supports ()

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 3 - 4 Net Torque Due to Internal Stresses $T = \int \rho dF = \rho(\tau dA)$ • Net of the internal shearing stresses is an internal torque, equal and opposite to the applied torque, • Although the net torque due to the shearing stresses is known, the distribution of the stresses is not

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 1 - 9 Design • Design of new structures requires selection of appropriate materials and component dimensions to meet performance requirements • For reasons based on cost, weight, availability, etc, the choice is made to construct the rod from aluminum ($\sigma_{all} = 100$ MPa) What is an

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MECHANICS OF MATERIALS Third Edition Ferdinand P Beer E Russell Johnston, Jr John T DeWolf Lecture Notes: J Walt Oler Texas Tech University

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MECHANICS OF MATERIALS dition Beer • Johnston • DeWolf 6 - 7 Example 601 A beam is made of three planks, nailed together Knowing that the spacing between nails is 25 mm and that the vertical shear in the beam is $V = 500$ N, determine the shear force in each nail SOLUTION: • Determine the horizontal force per unit length or shear flow q on the

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MECHANICS OF MATERIALS dition Beer • Johnston • DeWolf 4 - 15 Bending of Members Made of Several Materials • Consider a composite beam formed from two materials with E_1 and E_2 • Normal strain varies linearly $U_H y x$ • Piecewise linear normal stress variation $U V H U V H E y E E y E x x 2 2 1 1 1$ Neutral axis does not pass through

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Advanced Mechanics of Materials by Dr Sittichai Seangatith 1-1 Chapter 1 Theories of Stress and Strain 11 Definition of Stress at a Point Mechanics of materials is a branch of mechanics that studies 1) The relationships between the external loads applied to a deformable body and intensity of internal forces acting within the body 2)

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MECHANICS OF MATERIALS dition 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 V_x , V_y , W_{xy} and V_z W_{zx} W_{zy} 0 •State of plane stress occurs in a thin plate

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