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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 () = thermal expansion coef = $\Delta = \alpha \delta \alpha \delta AE PL T T L P$ • Treat the additional support as redundant and apply the

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 11 - 4 Strain Energy Density • To eliminate the effects of size, evaluate the strain-energy per unit volume, u d strain energy density $L dx A P V U x x = = \int \int 1 1 0 0 \epsilon \sigma \epsilon$ • The total strain energy density resulting from the deformation is equal to the area under the

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 5 - 20 Sample Problem 58 A simply supported steel beam is to carry the distributed and concentrated loads shown Knowing that the allowable normal stress for the grade of steel to be used is 160 MPa, select the wide-flange shape that should be used SOLUTION: • Considering the entire beam as a free-body, determine the reactions at

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MECHANICS OF MATERIALS dition Beer • Johnston • DeWolf 6 - 6 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

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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 10 - 10 Sample Problem 101 An aluminum column of length L and rectangular cross-section has a fixed end at B and supports a centric load at A Two smooth and rounded fixed plates restrain end A from moving in one of the vertical planes of symmetry but allow it to move in the other plane

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INTRODUCTION TO MECHANICS OF MATERIALS

Mechanics of materials is a branch of mechanics that develops relationships between the external loads applied to a deformable body and the intensity of internal forces acting within the body as well as the deformations of the body Equations of equilibrium (ie, statics) are mathematical

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