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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 qon the

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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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edition of the book was released, with the collaboration of Charles P Poole and John L Safko from the University of South Carolina [4] In the third edition, the book discusses at length various mathematically sophisticated reformations of Newtonian mechanics, namely analytical

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Third Edition MECHANICS OF 10 MATERIALS

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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