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Q :) When a bar of certain material 40 cm square is subjected to an axial pull of 100,000 N the extension on a gauge length of 200 mm is 0.1 mm and the decrease in each side of the square is 0.005 mm. Calculate Young's modulus, Poisson's ratio, shear modulus and bulk modulus for the material.

Q :) A solid shaft transmits 250 kW at 100 rpm. If the shear stress is not to exceed 75 N/mm^2 , what should be the diameter of shaft? If this shaft is to be replaced by a hollow shaft whose internal diameter shall be 0.6 times times the outer diameter, determine the size and percentage saving in weight, maximum stress being same.

Q :) The cross-section of a joist is a T-section, 120 mm × 200 mm × 12 mm, with 12 mm side horizontal. Sketch the shear stress distribution and hence find the maximum shear stress if it has to resist shear force of 200 kN.

Q :) For the I-section shown in figure determine the position of centroid and moment of inertia about the base flange (I_{KL}).

