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Daily Class – 08:30 PM

Q : ) Find the slope and deflection at the free end of a cantilever shown in figure. Moment of inertia of AC is twice the moment of inertia of BC.





Daily Class – 08:30 PM

Q : ) A steel rod 5 m long and of 3 cm diameter is used as a column, with both ends fixed. Determine the crippling load by writing the differential equation. Take  $E = 2 \times 10^6 \text{ kg/cm}^2$ .



Daily Class – 08:30 PM

Q:) A bar 40 mm in diameter is subjected to a tensile force of 40000 kg. The extension of bar measured over a gauge length of 200 mm was 0.318 mm. The decrease in diameter was found to be 0.02 mm. Calculate the values of Young's modulus of elasticity and modulus of rigidity of the material.



Daily Class – 08:30 PM

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.