

QUESTION 1

A cylinder has an internal diameter of 230 mm, has walls 5 mm thick and is 1 m long. It is found to change in internal volume by $12.0 \times 10^6 \text{ m}^3$ when filled with a liquid at a pressure P . If $E = 200 \text{ GN/m}^2$ and $\nu = 0.25$, and assuming rigid end plates, determine:

(a) The values of hoop and longitudinal stresses. (12 marks)

(b) The modifications to these values if joint efficiencies of 45% (hoop) and 85% (longitudinal) are assumed. (6 marks)

(c) The necessary change in pressure p to produce a further increase in internal volume of 15%.

The liquid may be assumed incompressible. (2 marks)

QUESTION 2

A beam ABC is 9 m long and supported at B and C, 6 m apart as shown in Figure Q1. The beam carries a triangular distribution of load over the portion BC together with an applied counter-clockwise couple of moment 80 kN m at B and a UDL of 10 kN/m over AB, as shown. Draw the S.F. and B.M. diagrams for the beam. (20 marks)

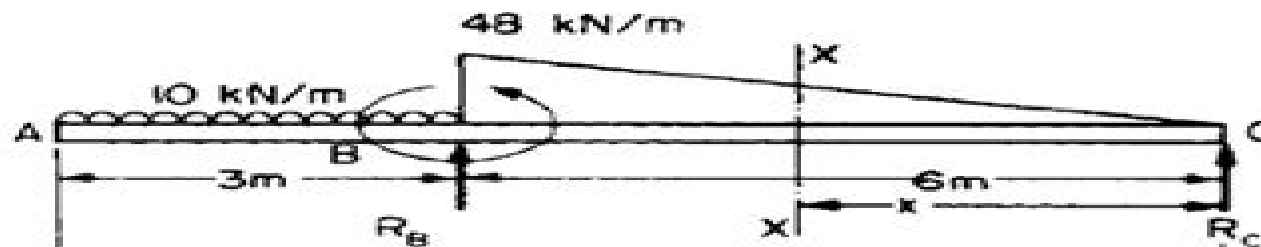


Figure Q1: beam

QUESTION 3

A uniform T-section beam is 100 mm wide and 150 mm deep with a flange thickness of 25 mm and a web thickness of 12 mm. If the limiting bending stresses for the material of the beam are 80 MN/m^2 in compression and 160 MN/m^2 in tension, find the maximum u.d.l. that the beam can carry over a simply supported span of 5m. (20 marks)

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