

Assignment

1. A doubly reinforced concrete beam 250 mm wide and 600 mm deep overall has to resist an external bending moment of 95 kNm. Find the amount of tensile and compressive steel required, if cover to the centre of steel on both sides is 50 mm. Take $\sigma_{cbc} = 5 \text{ N/mm}^2$ and $\sigma_{st} = 140 \text{ N/mm}^2$