

Flexural Analysis and Design of Beams

1

Solutions of Examples and Exercise of "Design of Concrete Structures" — Arthur H. Nilson, David Darwin, Charles W. Dolan.

Example 3.1

A rectangular beam has the dimensions $b = 10$ in, $h = 25$ in and $d = 23$ in and is reinforced with three No. 8 bars so that $A_s = 2.37$ in². The concrete cylinder strength f'_c is 4000 psi and the tensile strength in bending is 475 psi. The yield point of the steel f_y is 40,000 psi, the stress-strain curves of the materials being of those of Fig. 1.8. Determine the stress caused by a bending moment $M = 45$ kip-ft



We know, modular ratio, $n = \frac{E_s}{E_c} = \frac{29 \times 10^6}{3.6 \times 10^6} \left(\frac{f_y}{f'_c} \right) = 8.055 \approx 8$
transform area $(n-1)A_s = (8-1) \times 2.37 = 16.53$ in²

$$A_c = 25 \times 10 = 250 \text{ in}^2$$

Centroid from top $\bar{y} = \frac{250 \times 12.5 + 16.53 \times 23}{250 + 16.53} = 13.15$

Moment of Inertia $I = \frac{b h^3}{12} + A_c \bar{y}^2 + \frac{A_s d^3}{12} + 2 \times 8.275 \times (23 - 13.15)^2$
 $= 14630.44 \text{ in}^4$

Design Of Concrete Structures 13th Solution Manual

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