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3.1. A 18" x 20" n. column is made of the same concrete and reinforced with the same six No. 9 (No. 20) bars as the column in Examples 3.1 and 3.2, except that a steel with yield strength $f_y = 40$ ksi is used. The stress-strain diagram of this reinforcing steel is shown in Fig. 2.15 for $f_y = 40$ ksi. For this column determine (a) the axial load that will stress the concrete to 1200 psi; (c) the load at which the steel starts yielding; (c) the maximum load; and (d) the share of the total load carried by the reinforcement at these three stages of loading. Compare results with those calculated in the examples for $f_y = 60$ ksi, keeping in mind, in regard to relative economy, that the price per pound for reinforcing steels with 40 and 60 ksi yield points is about the same.

$A_g = 6.0 \text{ in}^2$
 $A_g = 16 \times 20 = 320 \text{ in}^2$
 $A_{s1} = A_g - A_g = 314 \text{ in}^2$
 $f_c = 4000 \text{ psi}$ $f_y = 40000 \text{ psi}$ $f_{y1} = 60000 \text{ psi}$
 $E_c = 3600000 \text{ psi}$ $E_s = 29000000 \text{ psi}$
 $n = \frac{E_s}{E_c} = 8.1$

Part a The solution is identical for grade 40 and grade 60 reinforcement
 $f_c = 1200 \text{ psi}$
 $P = f_c (A_g + n A_s) = 43400 \text{ lb}$ $P_s = f_y n A_s = 5800 \text{ lb}$
 $\frac{P_s}{P} = 0.133$ The steel carries 13.3 percent of the load

Part b
 $f_y = \frac{f_c}{n} = 0.00138$ $f_{y1} = \frac{f_{c1}}{n} = 0.00207$
For slow loading: $f_c = 3000 \text{ psi}$ $f_{c1} = 3000 \text{ psi}$
 $P = A_g f_c + A_s f_y = 113200 \text{ lb}$ $P_1 = A_g f_{c1} + A_s f_{y1} = 139620 \text{ lb}$
 $P_s = A_s f_y = 24000 \text{ lb}$ $P_{s1} = A_s f_{y1} = 36000 \text{ lb}$
 $\frac{P_s}{P} = 0.203$ $\frac{P_{s1}}{P_1} = 0.258$

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