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column is made of the same
concrete as used in Examples 3.1
and 3.2. It is reinforced with six No.
11 (No. 36) bars with $f_y = 60$
ksi. Design of Concrete Structures
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nilson. 1. 1/2 20" 16" $A_s = 6.0 \text{ in}^2$ $A_g = 16 \text{ in}^2$ $20 \text{ in} \times 24 \text{ in}$ $A_c = 240 \text{ in}^2$ $A_s = 3.14 \text{ in}^2$
 $2 f'_c = 4000 \text{ psi}$ $f_y = 40000 \text{ psi}$ $f_y = 60000 \text{ psi}$ $E_c = 3600000 \text{ psi}$ $E_s = 29000000 \text{ psi}$ $n = E_s / E_c = 8.1$ Part a The
solution is identical for grade 40
and grade 60 reinforcement $f'_c = 1200 \text{ psi}$ $P = f'_c A_c / n A_s = 434800 \text{ lbf}$ $P_s = f'_c n A_s = 58000 \text{ lbf}$ $P_s / P = 0.133$ The
steel carries 13.3 percent of the

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load Part b ϵ_y f_y E_s 0.00138 ϵ_y f_y E_s 0. Design of concrete structures 15th edition solutions ... A 16 × 20 in. column is made of the same concrete and reinforced with the same six No. 9 (No. 29) bars as the column in Examples 1.1 and 1.2, except that a steel with yield strength $f_y = 40$ ksi is used. The stress-strain diagram of this reinforcing steel is shown in Figure for $f_y = 40$ ksi. For this column determine (a) the axial load that will stress the concrete to 1200 psi; (b) the load ... Design Of Concrete Structures 14th Edition Textbook ... Many engineers use the structural analysis programs by Dlubal Software to perform the calculations and designs of 2D and 3D reinforced concrete structures such as buildings, slabs, plates,

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