

Design Of Concrete Structures Solutions

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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 ...

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1/2. 3.4. A 20×24 in. 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.

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