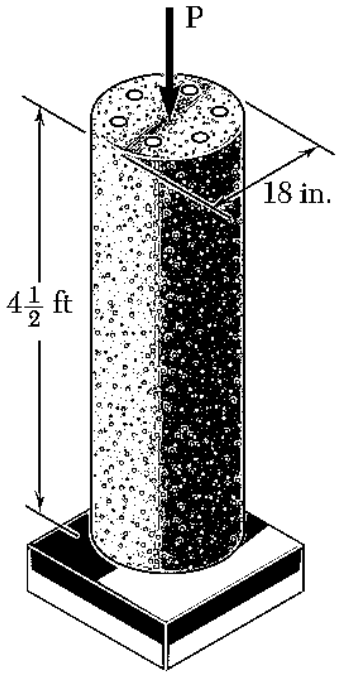
1) GIVEN: The concrete column is reinforced with six ∅1-1/8in. steel rods.
$E_s = 29x10^6$ psi and $E_c = 4.2x10^6$ psi.
REQ'D: Normal stresses in the steel and concrete if P = 350 kips. (B9.27)



2) GIVEN: Three steel rods ($E = 29 \times 10^6$ psi) support an 8.5-kip load **P**. Each of the rods AB and CD has a 0.32-in^2 cross-sectional area and rod EF has a 1-in^2 cross-sectional area. (B9.29)

Neglect any deformation of rod BED.

REQ'D: (a) Find the change in length of rod EF
(b) Find the stress in each rod.