The Islamic University of Gaza Faculty of Engineering

Design of Reinforced Concrete Structures II (ECIV 4316) Midterm Examination (1st Semester, 2020-2021)



Instructor: Prof. Samir M. Shihada

Time: 120 Minutes

Problem (2):

Column AB is 30 cmx100 cm in cross section and 3.0 m in height, is subjected to a factored vertical load of 100 t and a factored horizontal load of 3.0 t. Design the longitudinal reinforcement distributing it on all four sides of the cross section.

Related Date:

Use $f'_{r} = 280 \, \text{kg/cm}^2$ and $f_{r} = 4200 \, \text{kg/cm}^2$.



$$K_{n} = \frac{F_{n}}{F_{c}^{c} A_{5}}$$

$$Figure (1)$$

$$= \frac{100 (100)}{0.65(25)(100)(1280)} = 0.183$$

$$= \frac{9(10)^{5}}{0.65(28)(25)(100)(00)} = 0.016$$

$$= \frac{F_{c}^{c} A_{5}}{F_{c}^{c} A_{5}} = \frac{9(10)^{5}}{0.65(28)(25)(100)(00)} = 0.016$$

$$= \frac{F_{c}^{c} A_{5}}{F_{c}^{c} A_{5}} = \frac{9(10)^{5}}{0.65(28)(25)(100)(00)} = 0.016$$

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