SOLUTION: Madaming tanong na ganto pero If: Nominal Strength = FyZy (weaker axis) or FyZx (strong axis or x-axis) Nominal Yield Stregnth = FySy or FySx



SOLUTION: Pn=FcrAg Pu/phiPn check if larger or smaller Mnx= Note: use the interaction equation if larger or smaller sample>> Pu/phiPn+(Pu(e)/phiMnx)= 1.0 e=____

6. A 8m column is part of a braced frame with joint rotation carries service support end moments of 109.7KN-m at top and 176.9KN-m at bottom (single curvature). An additional axial compressive service load of 588KN is also applied on the column. Bending is about major axis only. The design compressive and bending strengths are 2940KN and 460KN-

m respectively. Fy=248MPa, E=200000MPa and Ix=222x10⁶mm⁴. Calculate the moment correction factor or reduction coefficient. Express your answer in 3 decimal places.

SOLUTION:

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