BACK TO MAIN TOC

List of Symbols

The following symbols are used in this thesis:

a.....Area of the affected concrete in fabric formed concrete specimens
A.....Total area of the concrete in fabric formed concrete specimens
A_g.....Gross cross-sectional area of concrete
A_{st}.....Total area of longitudinal column reinforcement
FAC....Flyash concrete
f'_c.....Specified compressive strength of concrete
f_y.....Specified yield strength of steel reinforcement
k.....Effective length factor for compression members
l_u.....Unsupported column length
M.....Moment at the end of the column (chapter 3)
NC....Normal concrete
P_f.....Factored axial load
P_{ro}.....Factored axial load resistance of a reinforced concrete column
r.....Radius of gyration for the column cross-section
R.....Rebound Value
s.....Center-to-centre spacing of ties
V.....Volume of the concrete (chapter 3)
x.....Length of the mechanical press lever's handle (chapter 3)
a_1.....Ratio of average stress in rectangular compression block to specified strength (CSA A23.3 Cl.10.1.7)
$ß_1$.....Ratio of depth of compression block to depth of neutral axis (CSA A23.3 Cl.10.1.7)
ρ_c.....Density of concrete
ρ_t.....Longitudinal steel reinforcement ratio (column)
φ_c.....Resistance factor for concrete (CSA A23.3 Cl.8.4.2)
φ_s.....Resistance factor for steel reinforcement

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