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LIST OF SYMBOLS AND ABBREVIATIONS

Symbols

E	-	a constant
A_{s2}	-	Area of compression steel
A_{st}	-	Area of steel
A_{s1}	-	Area of tension steel
f_{ck}	-	Characteristic compressive strength of concrete
V_{col}	-	Column Shear
C_2	-	Compressive force in left beam
d'	-	Cover
f_c'	-	Cylinder compressive strength
△	-	Deformation
D	-	Depth of column
h_c	-	Depth of column in the considered direction of shear
h_j	-	Depth of joint
e_y	-	Eccentricity
d_b	-	Effective depth of beam
A_{ej}	-	Effective shear area of joint
b_j	-	Effective width of joint
T_1	-	Force in the top reinforcement
A_g	-	Gross cross sectional area of column
V_{joint}	-	Joint shear force
P	-	Load
EX	-	Modulus of elasticity
x_u	-	Neutral axis depth
PRXY	-	Poisson’s ratio

ε_0	-	Strain at the ultimate compressive strength f_c'
f	-	Stress
f_{cc1}	-	Stress in concrete corresponds to A_{s1}
f_{cc2}	-	Stress in concrete corresponds to A_{s2}
f_{sc1}	-	Stress in steel A_{s1}
f_{sc2}	-	Stress in steel A_{s2}
T_2	-	Tensile force in left beam
D_c	-	Total depth of column
τ_{jh}	-	Ultimate joint shear stress
P_u	-	Ultimate load carrying capacity
M_u	-	Ultimate moment carrying capacity
f_t	-	Uniaxial tensile cracking stress
B	-	Width of column
b_c	-	Width of column
f_y	-	Yield stress of steel

Abbreviations

ACI	-	American Concrete Institute
ASCE	-	American Society of Civil Engineers
CFRP	-	Carbon Fibre Reinforced Polymer
FE	-	Finite Element
FRP	-	Fibre Reinforced Polymer
GFRP	-	Glass Fibre Reinforced Polymer
IS	-	Indian Standard
LVDT	-	Linear Variable Displacement Transducer
RC	-	Reinforced concrete
RCC	-	Reinforced Cement Concrete