

Glossary

x_c	=	Critical depth of neutral axis
x	=	Actual depth of neutral axis
d'	=	effective cover for compression reinforcement from top
σ_{cbc}	=	permissible compressive stress in concrete in bending
σ_{cbc}^1	=	compressive stress in concrete at the level of compressive steel
σ_{st}	=	permissible tensile stress in steel
m	=	modular ratio
b	=	breadth of section
d	=	effective depth of section
A_{st}	=	Area of tensile reinforcement
M_r	=	Moment of resistance
C	=	Total compressive force offered concrete above neutral axis
T	=	Total tensile force offered by tensile reinforcement
z_1	=	Lever arm $(d-x/3)$
z_1	=	Lever arm $(d-d^1)$