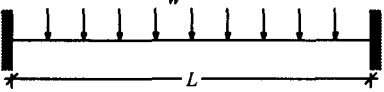
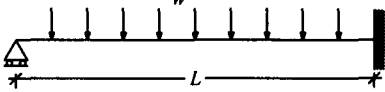
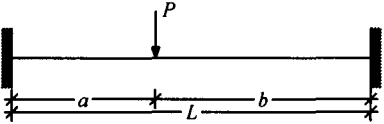
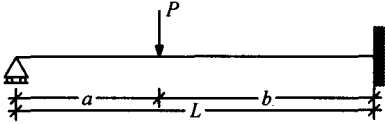
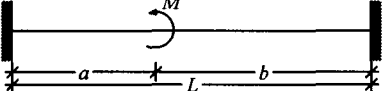
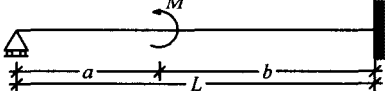
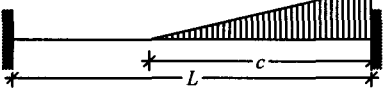
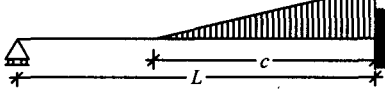


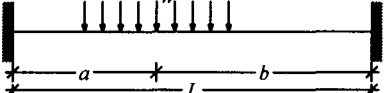

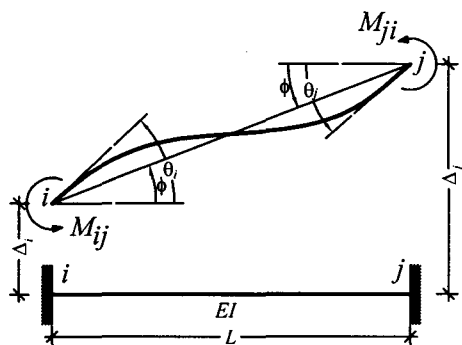


FIXED-END MOMENTS FOR PRISMATIC BEAMS

$\frac{wL^2}{12} \curvearrowright$		$\curvearrowright \frac{wL^2}{12}$		$\curvearrowright \frac{wL^2}{8}$
$\frac{Pab^2}{L^2} \curvearrowright$		$\curvearrowright \frac{Pa^2b}{L^2}$		$\curvearrowright \frac{Pab(L+a)}{2L^2}$
$\frac{Mb(3a-L)}{L^2} \curvearrowright$		$\curvearrowright \frac{Ma(3b-L)}{L^2}$		$\curvearrowright \frac{M(L^2-3a^2)}{2L^2}$
$\frac{wc'(5L-3c)}{60L^2} \curvearrowright$		$\curvearrowright \frac{wc'(10L^2-10Lc+3c^2)}{60L^2}$		$\curvearrowright \frac{wc'(20L^2-15Lc+3c^2)}{120L^2}$
$\frac{5wL^2}{96} \curvearrowright$		$\curvearrowright \frac{5wL^2}{96}$		$\curvearrowright \frac{5wL^2}{64}$
$\frac{wad}{12L^2} ((4L-d^2)(2b-a)-4(2b^2-a^2)) \curvearrowright$		$\curvearrowright \frac{wad}{12L^2} ((4L-d^2)(2a-b)-4(2a^2-b^2))$		$\curvearrowright \frac{wad}{8L^2} (4(L^2-d^2)-d^3)$

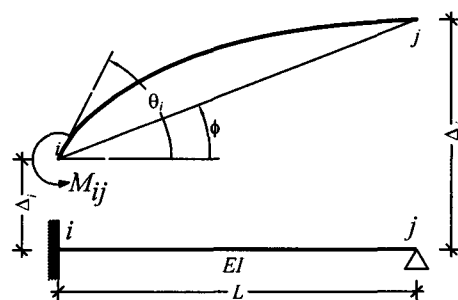
SLOPE DEFLECTION EQUATIONS



$$M_{ij} = \frac{2EI}{L} (2\theta_i + \theta_j - 3\phi) + M_{ij}^F$$

$$M_{ji} = \frac{2EI}{L} (\theta_i + 2\theta_j - 3\phi) + M_{ji}^F$$

$$\phi = \frac{(\Delta_j - \Delta_i)}{L}$$



$$M_{ij} = \frac{3EI}{L} (\theta_i - \phi) + M_{ij}^F$$

$$M_{ji} = 0$$

$$\phi = \frac{(\Delta_j - \Delta_i)}{L}$$