



$$\cos \theta = \frac{0.5L}{d}$$

FOR DIAG $n = \frac{1/2}{\cos \theta}$
 $= \frac{0.5}{\left(\frac{0.5L}{d}\right)} = \frac{d}{L}$

	n	n^2	L	$n^2 L$	$n^2 L / AE$
1	$-d/L$	d^2/L^2	d	d^3/L^2	$\frac{d^3}{L^2 A_d E}$
2	d/L	d^2/L^2	d	d^3/L^2	$\frac{d^3}{L^2 A_d E}$
3	1	1	L	L	$\frac{L}{A_g E}$

$F =$ ACTUAL FORCE ON FRAME

$$\sum \frac{2d^3}{L^2 A_d E} + \frac{L}{A_g E} = \left(\frac{2d^3}{L^2 A_d} + \frac{L}{A_g} \right) \frac{1}{E}$$

$$\delta = \frac{F}{E} \left(\frac{2d^3}{L^2 A_d} + \frac{L}{A_g} \right)$$

$$\neq \frac{Q}{E} \left(\frac{2d^3}{L^2 A_d} + \frac{L}{A_g} \right)$$

DIFFERENCE OF
A IN NUMERATOR