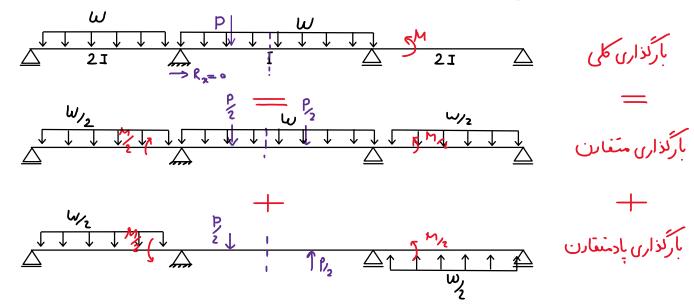
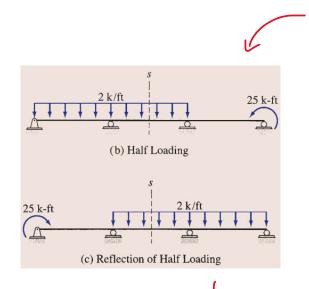
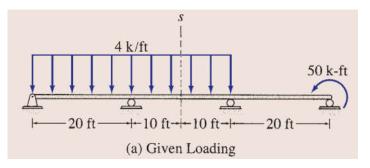
نلک کی بارگذاری کلی به یک بارگذاری منتارن و بادمنتارن

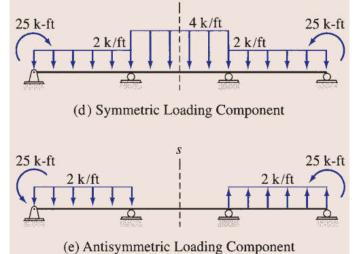
سازه منتارن با بارگذاری کل



(1) UL



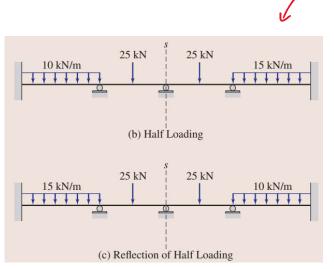


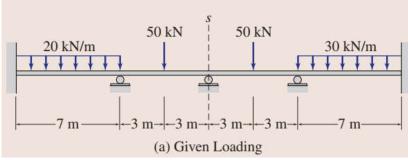


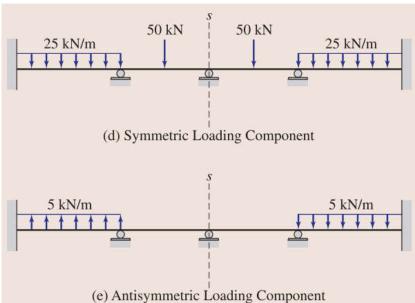
ا رمه سازه بایضیت با روتع در آینداسان است به محور آنتا رن

@ تنزيق ، رما ٥٠- ١٠ يادمتارت

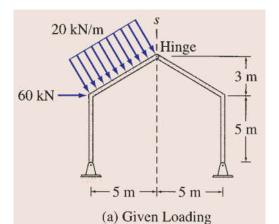
(۲)رائه

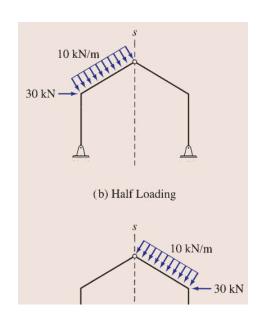


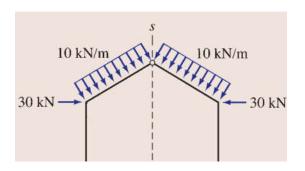




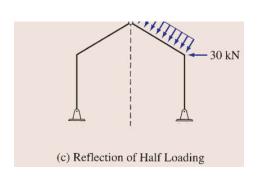


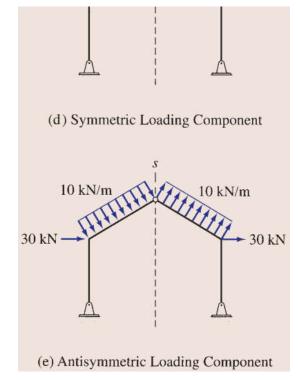


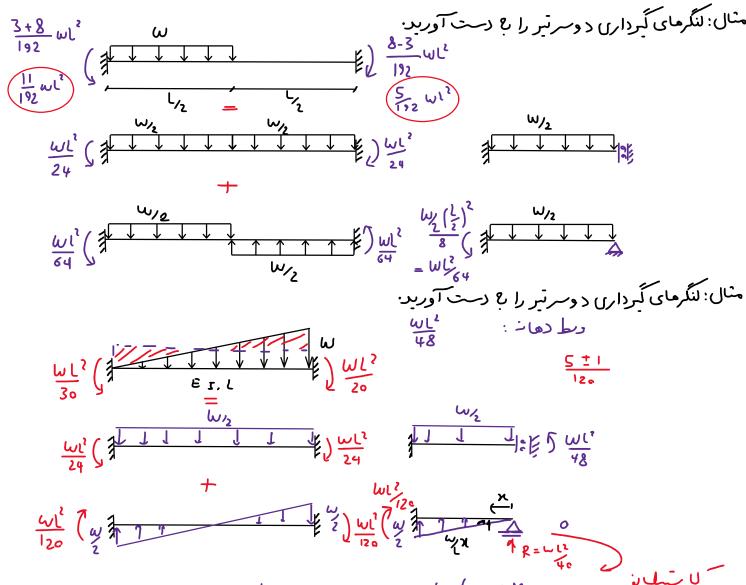




slope-deflection Page 2







$$\delta_{y} = \frac{\partial U}{\partial R} = a \implies U = \int \frac{1}{2} \frac{M^{2} dx}{EI} \implies \frac{1}{EI} \int M(\frac{\partial M}{\partial R}) dx = a$$

$$\int_{0}^{1/2} \left(R x + \frac{w}{L} \frac{x^{3}}{6} \right) (x) dx = 0$$

$$\int_{a}^{L} \left(R n^2 + \frac{\omega}{L} \frac{x^4}{6} \right) dx = 0$$

$$\left(R \frac{\chi^{3}}{3} + \frac{\omega}{L} \frac{\chi^{5}}{30}\right) \Big|_{2}^{2} = 0$$

$$R\left(\frac{1}{24}\right) = \frac{-\omega}{\omega} \frac{1}{30 \times 52}$$



$$\frac{1}{EI}\int M(\frac{\partial M}{\partial R})\,dx=0$$

$$\begin{cases} M = k_{x} + \frac{w}{l} \frac{x^{3}}{6} \\ \frac{\partial M}{\partial R} = x \end{cases}$$

$$\left(\frac{1}{2} \left(\frac{\omega_{\chi}}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \frac{1}{4 g}$$

