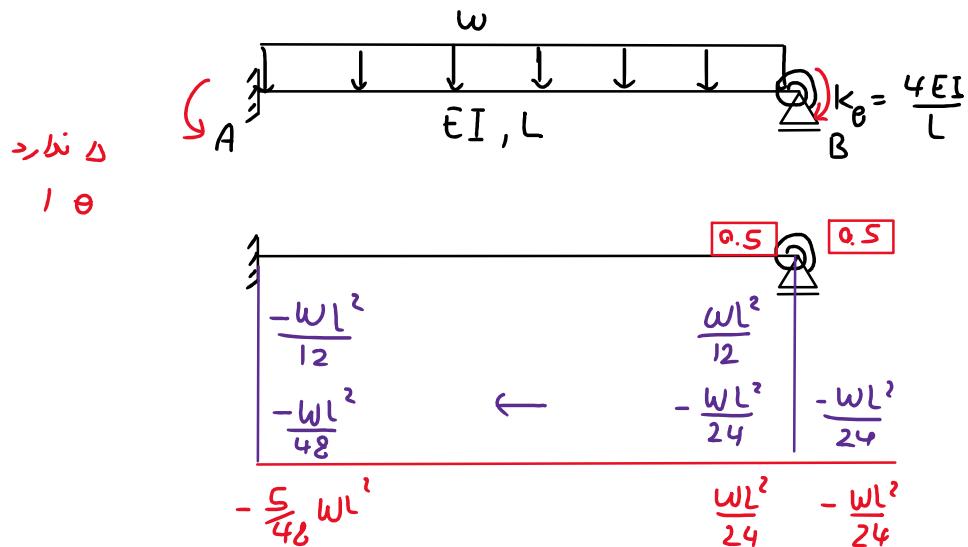


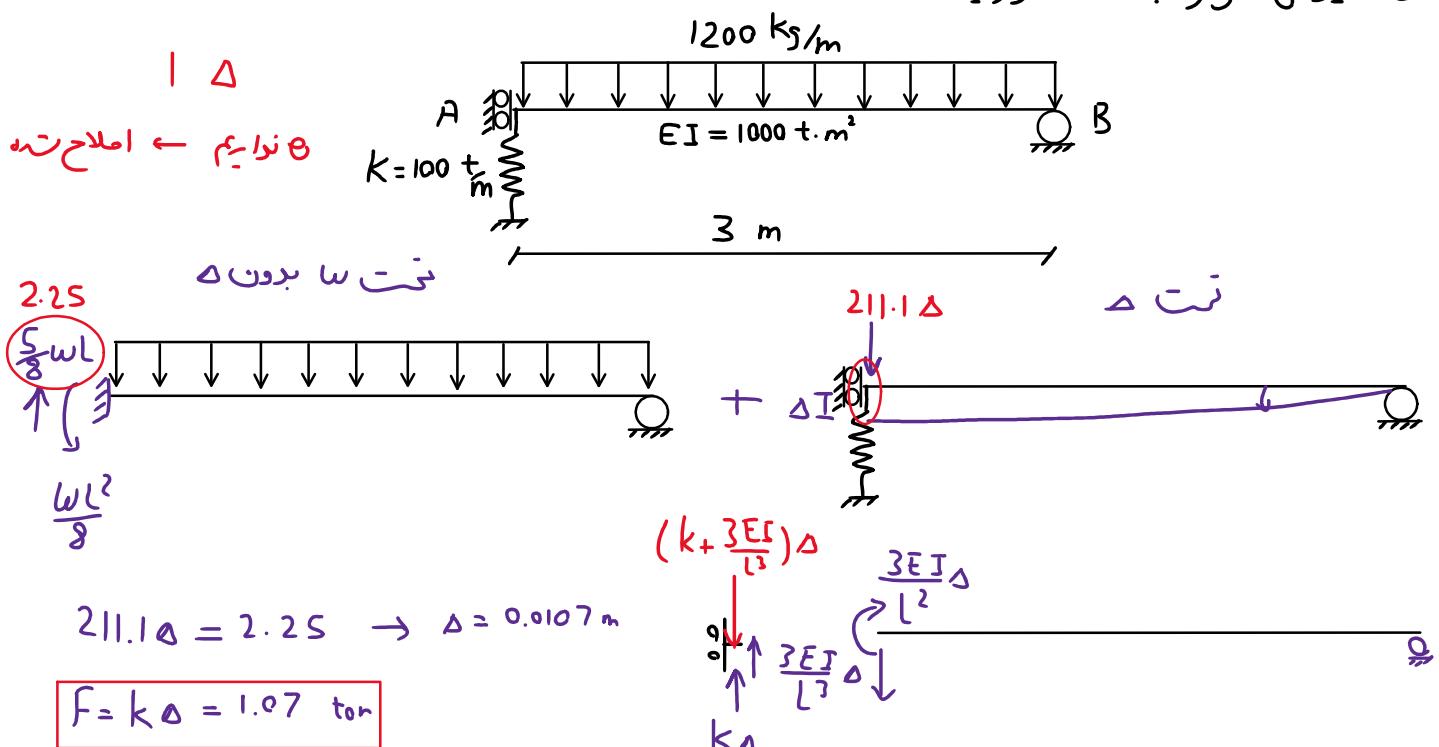
Moment Distribution 9

Monday, April 29, 2024 22:54

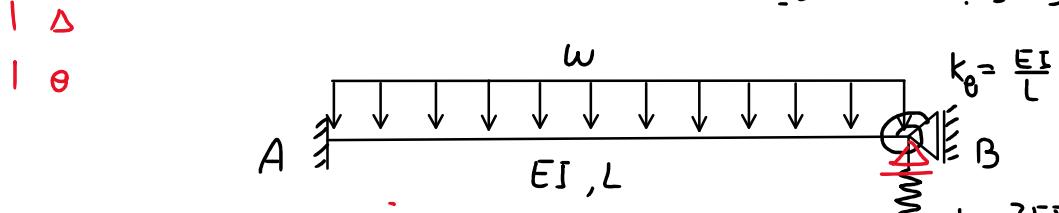
مثال: لکنرهاي دو سر تير را به دست آوريد.



مثال: بيردهاي فنر را به دست آوريد.

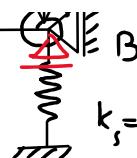
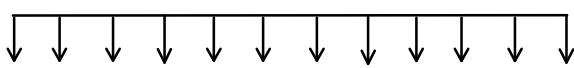


مثال: بيردهاي فنرها را به دست آوريد.

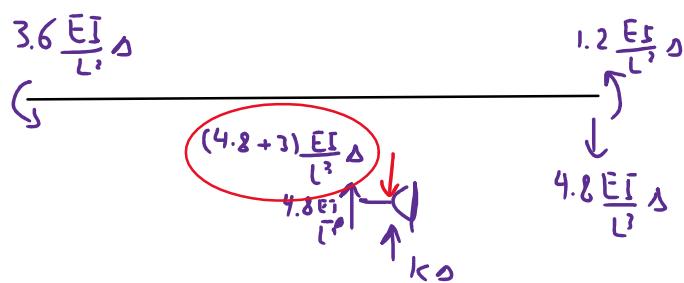
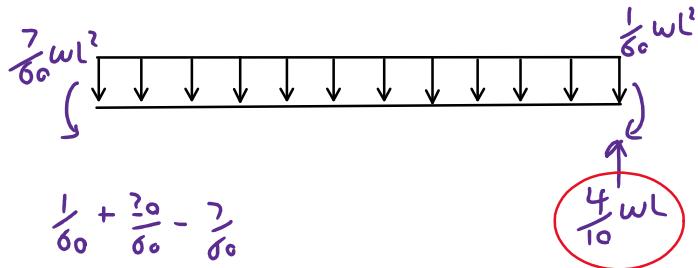
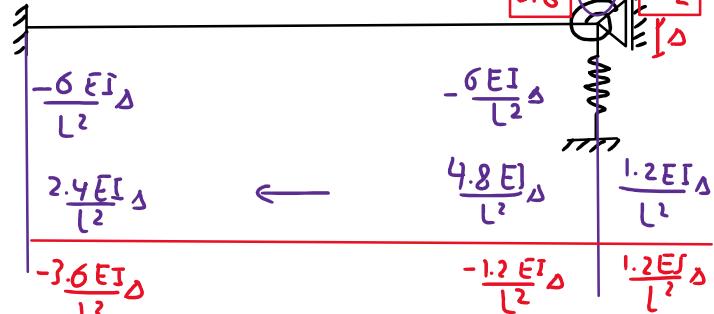
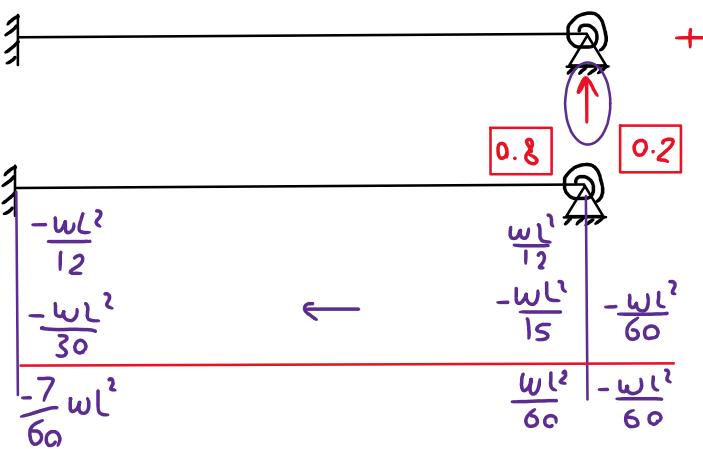




نکتہ بدرنگ



تحت اثر

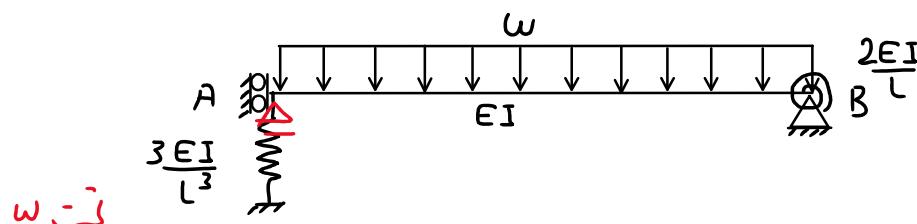


$$\frac{4}{10}wl = 7.8 \frac{EI}{L^3} \Delta \rightarrow EI\Delta = \frac{2}{39}wl^4$$

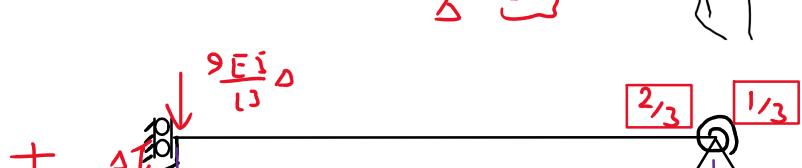
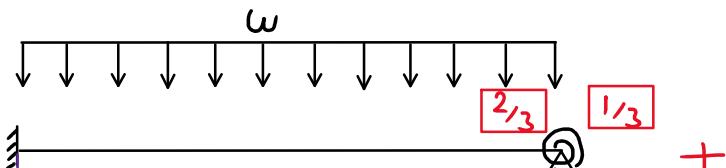
$$F_s = k\Delta = \frac{3EI}{L^3}\Delta = \frac{3}{L^3} \cdot \frac{2}{39}wl^4 = \frac{2}{13}wl$$

$$M_s = -\frac{wl^2}{60} + \frac{1.2EI}{L^2}\Delta = \left(-\frac{1}{60} + \frac{4}{15} \times \frac{2}{13}\right)wl^2 - \frac{-13+48}{5 \times 12 \times 13}wl^2 = \frac{7}{156}wl^2$$

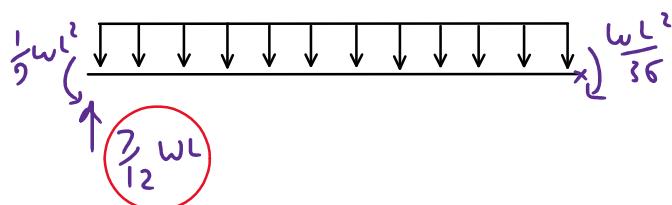
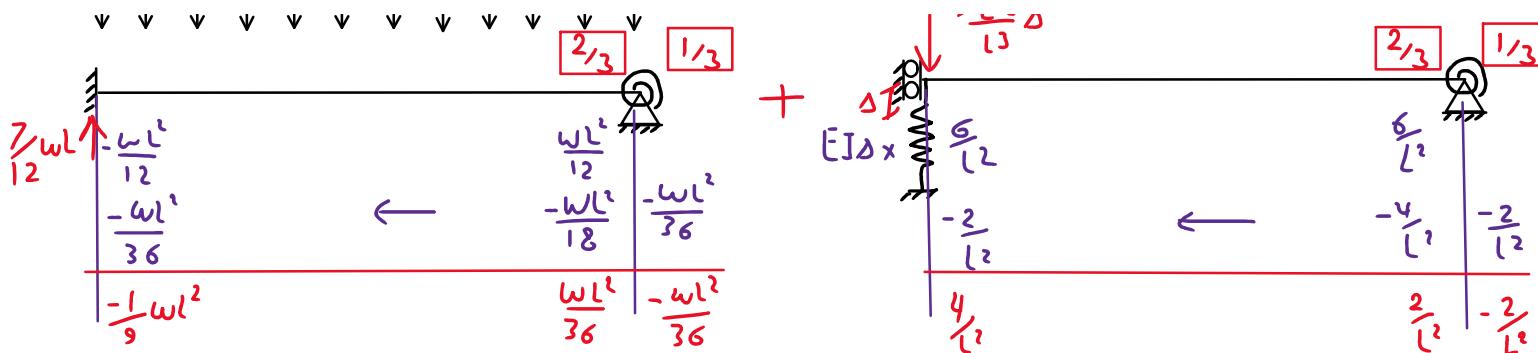
مثال: سیردھاں فنرها را بھ دست آکرید۔



نکتہ

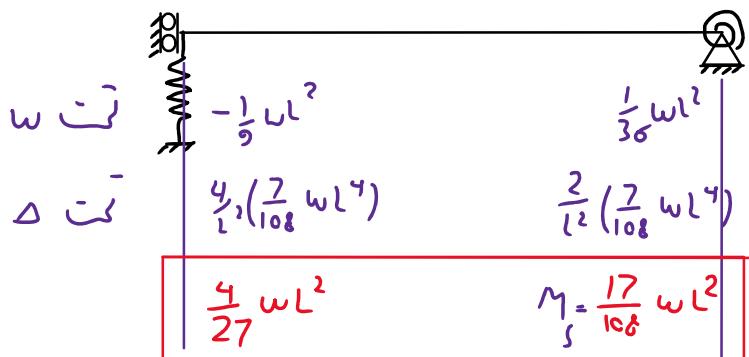


نکتہ



$$\frac{9EI}{L^3} \Delta = \frac{7}{12}WL \rightarrow EI\Delta = \frac{7}{108}WL^4$$

$$F_s = k\Delta = \frac{3EI}{L^3} \Delta = \frac{7}{36}WL$$



$$\frac{6}{L^3} \Delta + \frac{3}{L^3} \Delta = \frac{9}{L^3} \Delta$$