力学题我有bear来，做的过程滴水blow！

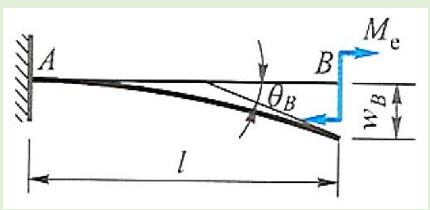
材料力学真好玩~

弯曲变形重点公式

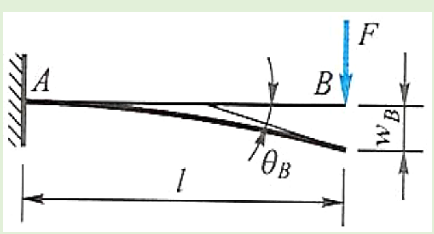
一.挠曲线近似微分方程

$$w'' = \frac{M}{EI}$$

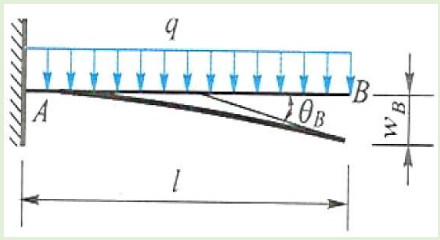
二.必背6大转角挠度公式



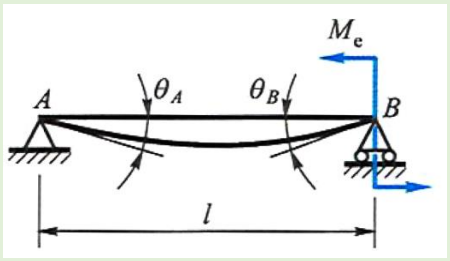
$$\theta_B = \frac{M_e l}{EI} \qquad w_B = \frac{M_e l^2}{2EI}$$



$$\theta_B = \frac{Fl^2}{2EI} \qquad w_B = \frac{Fl^3}{3EI}$$



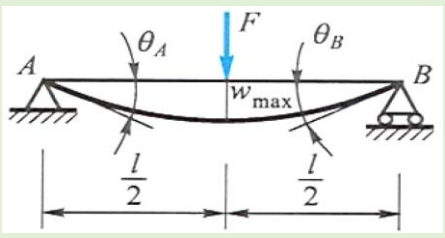
$$\theta_B = \frac{ql^3}{6EI} \qquad w_B = \frac{ql^4}{8EI}$$



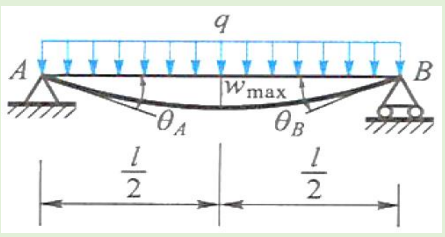
$$\theta_A = \frac{M_e l}{6EI} \qquad \theta_B = \frac{M_e l}{3EI}$$

$$w_{\max} = \frac{Ml^2}{9\sqrt{3}EI}, \quad x = \frac{l}{\sqrt{3}}$$

$$w_C = \frac{Ml^2}{16EI}\text{（中点）}$$



$$\theta_A = \theta_B = \frac{Fl^2}{16EI} \qquad w_C = \frac{Fl^3}{48EI}$$



$$\theta_A = \theta_B = \frac{ql^3}{24EI}$$

$$w_C = \frac{5ql^4}{384EI}$$