



$$\begin{aligned} \sum F_{ix} = 0 & \quad R_{Ax} = 0 \\ \sum F_{iy} = 0 & \quad R_{Ay} - P - 2P + R_B = 0 \\ \sum M_{iA} = 0 & \quad P \cdot l + 2P \cdot 2l - R_B \cdot 3l = 0 \end{aligned}$$

$$3R_B \cdot l = 5P \cdot l \quad /: l$$

$$3R_B = 5P \quad /: 3$$

$$\boxed{R_B = \frac{5}{3}P}$$

$$R_{Ay} = 3P - \frac{5}{3}P$$

$$\boxed{R_{Ay} = \frac{4}{3}P}$$

$$0 < x < l$$

$$T = R_{Ay}$$

$$M_g = R_{Ay} \cdot x$$

$$db \ x = 0$$

$$M_g = 0$$

$$db \ x = l$$

$$M_g = \frac{4}{3}P \cdot l$$

$$\left. \begin{array}{l} x=0 \\ x=l \end{array} \right\} T = \frac{4}{3}P$$

$$l < x < 2l$$

$$T = R_{Ay} - P$$

$$M_g = R_{Ay} \cdot x - P \cdot (x - l)$$

$$db \ x = l$$

$$M_g = \frac{4}{3}P \cdot l$$

$$db \ x = 2l$$

$$M_g = \frac{4}{3}P \cdot 2l - P \cdot l$$

$$M_g = \frac{8}{3}P \cdot l - P \cdot l$$

$$M_g = \frac{5}{3}P \cdot l$$

$$\left. \begin{array}{l} x=l \\ x=2l \end{array} \right\} T = \frac{4}{3}P - P$$

$$T = \frac{1}{3}P$$

$$2l < x < 3l$$

$$T = R_{Ay} - P - 2P$$

$$M_g = R_{Ay} \cdot x - P \cdot (x - l) - 2P \cdot (x - 2l)$$

$$db \ x = 2l$$

$$M_g = \frac{4}{3}P \cdot 2l - P \cdot l$$

$$M_g = \frac{5}{3}P \cdot l$$

$$db \ x = 3l$$

$$M_g = \frac{4}{3}P \cdot 3l - P \cdot 2l - 2P \cdot l$$

$$M_g = 4P \cdot l - 4P \cdot l$$

$$M_g = 0$$

$$\left. \begin{array}{l} x=2l \\ x=3l \end{array} \right\} T = \frac{4}{3}P - P - 2P$$

$$T = \frac{4}{3}P - 3P$$

$$T = -1\frac{2}{3}P$$

$$F = \frac{M_{gmax}}{J_{2c}} \cdot y_{max} \leq k_g$$