村料力学

[1]

(1) 
$$R_A + R_B = P$$
  
 $F_A + F_B = 0$   
 $F_A + PL = F_B = 0$ 

(2) 
$$R_A = \frac{1}{2} P$$
,  $F_A = -\frac{2}{2a} P$   
 $R_B = \frac{1}{2} P$ ,  $F_B = \frac{2}{2a} P$ 

(3) 
$$T_{A} = \frac{2P}{\pi d^{2}a} \sqrt{a^{2} + e^{2}}$$

$$T_{B} = \frac{2P}{\pi d^{2}a} \sqrt{a^{2} + e^{2}}$$

(2) 
$$R_A = P + wl$$
,  $M_A = -l(\frac{wl}{2} + \frac{2P}{3})$ 

(3) 
$$F_{AC} = P + w(l - x)$$
  $(0 \le x \le \frac{2}{3}l)$   
 $F_{BC} = w(l - x)$   $(\frac{2}{3}l \le x \le l)$ 

(4) 
$$M_{AC} = -\frac{w}{2}(l-x)^2 - P(\frac{2}{3}l-x)$$
  $(0 \le x \le \frac{2}{3}l)$   
 $M_{CB} = -\frac{w}{2}(l-x)^2$   $(\frac{2}{3}l \le x \le l)$