

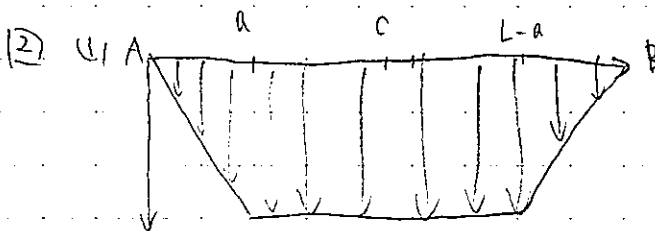
27 材力

$$(1) \text{ (i)} \quad R_A = \frac{4E_1 C}{E_2 a + 4E_1 h + 4E_1 C} P$$

$$R_D = \frac{E_2 a + 4E_1 h}{E_2 a + 4E_1 h + 4E_1 C} P$$

$$(2) \quad \delta_1 = \frac{4C}{\pi d^2 E_1} \cdot \frac{E_2 a + 4E_1 h}{E_2 a + 4E_1 h + 4E_1 C} P$$

$$(3) \quad \delta_{C2} = \frac{4C}{\pi d^2 E_2} P$$



$$(2) \quad \frac{Pa^2(3L-4a)}{6EI}$$

$$(3) \quad -\frac{Pa}{6EI} (L-2a)^2$$

$$(4) \quad \frac{a}{L} = \frac{6-\sqrt{15}}{14}$$

$$(3) \text{ (i)} \quad P(-L\sin\theta + \frac{h}{2}\cos\theta)$$

$$(2) \quad \theta \leq \tan^{-1}\left(\frac{h}{2L}\right) \quad \theta \neq \frac{\pi}{2} \quad \frac{P\cos\theta}{2Lh} + \frac{6P}{2Lh^2} \left(-L\sin\theta + \frac{h}{2}\cos\theta\right)$$

$$\theta > \tan^{-1}\left(\frac{h}{2L}\right) \quad \frac{P\cos\theta}{2Lh} - \frac{6P}{2Lh^2} \left(-L\sin\theta + \frac{h}{2}\cos\theta\right)$$

$$(3) \quad \theta \leq \tan^{-1}\left(\frac{h}{2L}\right) \quad \frac{\sigma_a L h^2}{-6L\sin\theta + 4h\cos\theta}$$

$$\theta > \tan^{-1}\left(\frac{h}{2L}\right) \quad \frac{\sigma_a L h^2}{6L\sin\theta - 2h\cos\theta}$$