$$\frac{1}{\sqrt{14}} \int_{\frac{\pi}{4}} \frac{1}{\sqrt{14}} \int_{\frac{\pi}{4}} \int_{$$

蓝品追

$$\int_{3^{2}+1.5^{2}}^{3^{2}+1.5^{2}} = 3.354, E = 2006 Pa, A = 400 mm^{2}$$

$$\begin{cases}
F_{4y} = F_{8y} \\
5M_{8} = 0 = 2\times3 + P\times h - F_{4y} \times 3
\end{cases}$$

$$\int_{3^{2}+1.5^{2}}^{4y} = F_{8y} = 2+2P$$

$$\int_{3^{2}+1.5^$$

Fig. 2354 (ED = 1 =) (cD = 2)
For =
$$\frac{3}{3.354}$$
 For = 2 P
Fry A $\frac{3}{3.354}$ For + 2 P = 2+2 P => Fac = 2.236
 $\frac{11}{2+2}$ Fax = $\frac{1.5}{3.354}$ Fac = 1

$$\Delta_{D} = \frac{\partial U}{\partial p} = \sum_{A \in \mathbb{Z}} \frac{F_{AE}}{AE} \left[\frac{2^{2}p \times 3}{2^{2}p \times 3} + \frac{1}{2236} \frac{2}{p \times 3} + \frac{1}{2236} \frac{2$$

$$\sum M_0 = 0 = M - \frac{1}{1000} \text{ M} = \text{Prsin } \theta$$

$$\Delta A = \frac{\partial U}{\partial P} = \int_0^{\infty} \frac{M \frac{\partial M}{\partial P}}{EI} \gamma d\theta = \int_0^{\infty} \frac{P(r \sin \theta)^2}{EI} \gamma d\theta = \frac{Pr^3}{EI} \int_0^{\infty} \frac{1}{2} \frac{1}{2} d\theta$$

$$= \frac{PY^{3}}{EI} \left[\frac{D}{2} - \frac{SIND\theta}{4} \right]^{TU} = \frac{PY^{3}TU}{2EI}$$

$$\begin{array}{lll}
& M = P \times GM (\pi - \theta) \\
& T = -P \times \left[1 - \omega G(\pi - \theta) \right] \\
& \Delta_{B} = \frac{\partial U}{\partial P} = \int_{0}^{\pi} \left(\frac{M \frac{\partial M}{\partial P}}{EI} + \frac{T \frac{\partial T}{\partial P}}{GI} \right) Y d\theta = \int_{0}^{\pi} \left(\frac{P \times GM (\pi - \theta)}{EI} + \frac{P \times \left[1 - \omega G(\pi - \theta) \right]}{GI} \right) Y d\theta \\
& = P \times^{3} \int_{0}^{\pi} \left(\frac{1 - \omega GG (\pi - \theta)}{2EI} + \frac{1 - 2GM (\pi - \theta)}{GI} + \frac{1 + \omega GG (\pi - \theta)}{GI} \right) d\theta
\end{array}$$

$$= Pr^{3} \left\{ \frac{1}{EI} \left[\frac{D}{2} + \frac{\pi N_{2}(\pi - \theta)}{4} \right] + \frac{1}{ED} \left[\frac{1}{B} - 2 \cos(\pi - \theta) + \frac{1}{2} - \frac{\sin(\pi - \theta)}{4} \right] \right\}$$

$$= Pr^{3} \left[\frac{1}{EI} \times \frac{\pi}{2} + \frac{(1+D)}{EI} \left(\frac{3}{N} - 4 + \frac{\pi}{2} \right) \right]$$

$$= \frac{Pr^{3}}{2EI} \left[\pi + 2(1+D) \left(\frac{3}{2}\pi - 4 \right) \right] + \frac{1}{2} \left[\frac{1}{N} + \frac$$

$$\begin{cases} F_{4} + F_{b} = 2WA \\ \sum_{MA = 0} = F_{b}(2A) + WA(\frac{a}{2}) - WA(\frac{5}{2}A) \end{cases} \Rightarrow F_{A} = F_{b} = WA$$

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