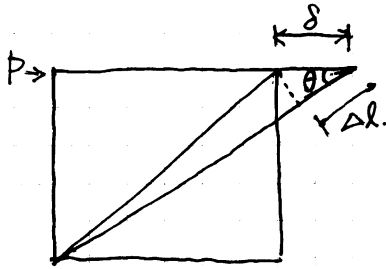


。 ブレースの剛性



• $P = N \cos \theta$.

• $\delta = E \epsilon$.

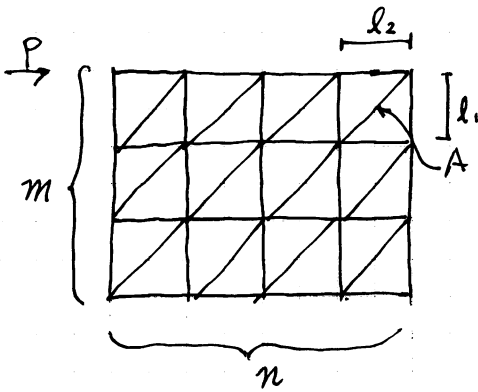
$\frac{N}{A} = E \cdot \frac{\Delta l}{l} \quad \therefore N = EA \cdot \frac{\Delta l}{l}$

$\Delta l = \delta \cdot \cos \theta, \quad N = P / \cos \theta$

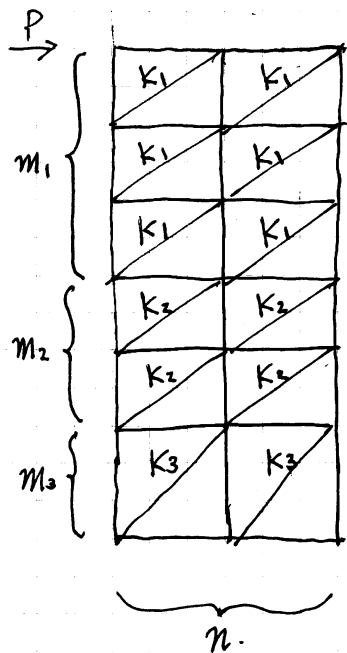
$\frac{P}{\cos \theta} = EA \cdot \frac{\delta \cos \theta}{l}$

$\rightarrow P = \left(\frac{EA}{l} \cos^2 \theta \right) \delta$

↑ 世人断剛性



$P = \left(\frac{EA}{\sqrt{l_1^2 + l_2^2}} \cdot \frac{n}{m} \cdot \cos^2 \theta \right) \delta$



$P = \left(\frac{1}{\frac{m_1}{nK_1} + \frac{m_2}{nK_2} + \frac{m_3}{nK_3}} \right) \delta$