

$r = DL$ $r_h = DL$ $r_n = DL - mQ$ $Q_w = \frac{20A}{h}$ $k(Q) = \frac{Q}{Q} A + h \frac{Q}{2}$ $T_{max} = Q$ $T = \frac{Q}{D}$

$n=1$: سطح متساوٍ / ملائمة / معانٍ بالـ \rightarrow $Q_w = \frac{20A}{h}$ $n=1$: سطح متساوٍ / ملائمة / معانٍ بالـ \rightarrow $k(Q) = \frac{Q}{Q} A + h \frac{(Q-n)}{2}$

$r = DL - b$ $r_h = DL - mQ - b$ $Q = \frac{\pi D}{h} + (1 + \frac{\pi}{h})b$ $K_w, Q_w \leftarrow b^* = 0$ $\Pi D > k_w$

هر طبقه \leftarrow متساوٍ \leftarrow K_w $\Pi D = k_w$ \rightarrow حالة أسوأ

$k = \frac{D}{Q} A + \frac{h(Q-b)^2}{2Q} + \frac{\pi b^2}{2Q} + \frac{D}{Q} \Pi b$ $I_{max} = Q - b$ $Q^* = \sqrt{\frac{\pi}{\hat{\pi}}} \sqrt{\frac{20A}{h} - \frac{\pi D^2}{h(\hat{\pi}+h)}}$, $b^* = \frac{-\Pi D + \sqrt{20Ah(1+\frac{h}{\hat{\pi}}) - \frac{h}{\hat{\pi}}(\Pi D)^2}}{\hat{\pi}+h} = \frac{hQ^* - \Pi D}{\hat{\pi}+h}$

$r = DL - DT$ $r_h = DL - mQ - DT$ $Q = \frac{\pi D}{h}$ $Q_w, K_w \leftarrow \hat{T} = 0$ $\Pi D < k_w$ $\Pi D = k_w$ \rightarrow حالة أسوأ

$I_{max} = Q$, $K(Q, \hat{T}) = \frac{DA}{Q + D\hat{T}} + \frac{hQ^2}{2(Q+DT)} + \frac{\pi D^2 \hat{T}}{Q + DT}$, $K^* = \sqrt{20A h (1 - \frac{D}{P})}$, $Q^* = \sqrt{\frac{20A}{h(1 - \frac{D}{P})}}$

\rightarrow $\text{أكبر مقدار مطربي بـ } P \rightarrow \infty$ \rightarrow $\text{أكبر مقدار مطربي بـ } P = 0$

$I_{max} = Q(1 - \frac{D}{P})$, $T_0 = \frac{Q}{D}(1 - \frac{D}{P})$, $T_P = \frac{Q}{P}$, $K(Q) = \frac{D}{Q} A + h \frac{Q}{2} (1 - \frac{D}{P})$, $T = T_P + T_0$

$r = DL$ $r_h = DL - mQ$ $\leftarrow L - mT < T_0$

$r_h = DL - pL + (m+1)Q (\frac{p}{D} - 1)$ $\leftarrow L - mT > T_0$

$K^* = \sum_{j=1}^n \sqrt{20j A_j h_j}$, $Q^* j = \sqrt{\frac{20j A_j}{h_j}}$, $K = \sum_{j=1}^n \left[\frac{D_j A_j}{Q_j} + \frac{h_j Q_j}{2} \right]$

\rightarrow $\text{أكبر مقدار مطربي بـ } P = 0$ \rightarrow $\text{أكبر مقدار مطربي بـ } P \rightarrow \infty$

$T = \max(T_0, T_{min})$, $Q_j^* = D_j T^*$, $K = \sum_{j=1}^n \left[\frac{D_j A_j}{Q_j} + \frac{h_j Q_j}{2} \left(1 - \frac{D_j}{P_j} \right) \right]$

$T^* = \sqrt{\frac{2 \sum A_j}{\sum h_j D_j \sqrt{1 - \frac{D_j}{P_j}}}}$, $T_{min} = \frac{\sum s_j}{1 - \sum \frac{D_j}{P_j}}$

\rightarrow $\text{أكبر مقدار مطربي بـ } P = 0$, \rightarrow $\text{أكبر مقدار مطربي بـ } P \rightarrow \infty$