## 春二周:

- 1. m= 2450 kg
- 11) mg = 4KSst > K = 245 N/mm

$$\eta^2 = \frac{A_1}{A_2} \cdot \frac{A_2}{A_3} = 10 \Rightarrow \eta = \sqrt{10}$$

$$\eta = e^{\frac{1}{2}w_0} \operatorname{Td}$$

$$= e^{\frac{1}{2}w_0} \frac{2\pi}{w_d}$$

$$= e^{\frac{2\pi S}{\sqrt{1-3L}}} = \sqrt{10} \implies S = \frac{2\pi S}{\sqrt{1-SL}} = \ln \sqrt{10} = \frac{1}{2} \ln 10$$

(2) 
$$3 = \frac{c}{2mW_n} \Rightarrow n = \frac{c}{2m} = \frac{c}{3}W_0$$

$$8 = \frac{2\pi \$}{\sqrt{1-\$^2}} = \frac{1}{2} \ln 10 \implies \$ = 0.1802$$

$$n = 0.736$$
  $\eta = e^{nTa} = \sqrt{10} \Rightarrow T_a = \frac{1}{2} \frac{|n|_0}{n} = 1.564$ 

2. ** ** ** ** ** ** ** ** ** ** ** ** **	K8b=PL 愛熱能泛置
Imax = Vmax	$(9)^{2} - 8^{2}) - P(9) = \frac{1}{2}K(b9)^{2} + CKb8 - P(1)9$ $= \frac{1}{2}K(b9)^{2}$
	ax.