

$$m\ddot{n} = -\pi \dot{n} - k \dot{n} + Fo \cos \mathcal{I}t$$

$$7\ddot{n} + 2b\ddot{n} + w^2 \dot{n} = \frac{Fo}{m} \cos \mathcal{I}t$$

$$7\ddot{n} = B \cos(\mathcal{I}t + p)$$

$$8\ddot{r} = -B \cdot 2 \sin(\mathcal{I}t + p) = B \cdot 2 \cos(\mathcal{I}t + p)$$

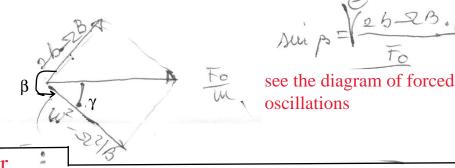
$$2 \cdot 1 \cdot (-1 \cdot 2) = 2 \cdot 5 \cdot 2 \cdot B \cdot \sin(\mathcal{I}t + p)$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right)$$

$$= \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right)$$

$$= \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \frac{1}{2} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right)$$

[w3-22)Bconfortop)+2 b-2Bconfortop + 1 = 70 cosset



Active power

$$P_{F} = \frac{dL_{F}}{dt} = F \cdot \frac{dn}{dt} = \frac{1}{T} \int_{0}^{T} \frac{dn}{dt} \times \frac{2B \cos(2nt+p)t}{2} dt$$

$$= \frac{1 \cdot T_{0}}{T} \cdot \frac{2B}{2} \cos(2nt+p) + \frac{\pi}{2} dt + 2 \cdot \frac{1}{2} \cos(2nt+p) + \frac{\pi}{2} dt$$

$$= \frac{F_{0} \cdot 2B \cdot T \cos(p) + \frac{\pi}{2}}{2} = -\frac{T_{0} \cdot 2B}{2} \sin(p) = \frac{T_{0} \cdot 2B}{2} \sin(p) = \frac{T_$$



$$=\frac{SBF_0QBR}{2}=\frac{SB^2R}{F_0}$$

Reactive power

$$P_{R} = \frac{dL_{R}}{dt} = Fr \cdot dx = fr \cdot v = -\pi v^{2}$$

$$P_{R} = \frac{1}{2}\pi R^{2} \cdot \Omega^{2} \left(\cot + \beta + \frac{\pi}{2} \right) = -\frac{\pi R^{2} \cdot \Omega^{2}}{2}$$

$$= \frac{1}{2}\pi R^{2} \cdot \Omega^{2} \cdot \Omega^{2} \left(\cot + \beta + \frac{\pi}{2} \right) = -\frac{\pi R^{2} \cdot \Omega^{2}}{2}$$

$$= \frac{1}{2}\pi R^{2} \cdot \Omega^{2} \cdot \Omega$$

$$\int_{0}^{\infty} (2t+1)dt = \int_{0}^{\infty} (2t+1)dt = \int_{0}^{$$

$$\int_{0}^{T} \cos(2\Omega t + \beta + \pi/2) dt = \int_{\beta + \pi/2}^{2\Omega T + \beta + \pi/2} \cos u \frac{du}{2\Omega} = \int_{\beta + \pi/2}^{2\frac{2\pi}{T}T + \beta + \pi/2} \cos u \frac{du}{2\Omega}$$

$$= \int_{\beta + \pi/2}^{4\pi + \beta + \pi/2} \cos u \frac{du}{2\Omega} = \frac{\sin u}{2\Omega} \Big|_{\beta + \pi/2}^{4\pi + \beta + \pi/2}$$

$$= \frac{\sin(4\pi + \beta + \pi/2) - \sin(\beta + \pi/2)}{2\Omega}$$

$$= \frac{\sin(\beta + \pi/2) - \sin(\beta + \pi/2)}{2\Omega} = 0$$