Sunday, March 7, 2021 6:50 PM

$$i$$
 $x(t) = acos(a,t)$

$$\dot{x}(t) = -a\omega_o \sin(\omega_o t)$$

$$\int \frac{dP(t)}{d\Omega} dt' = \frac{e^2 a^2 \omega_0^2 \omega_0 s^2(0)}{16\pi^2 c^3} \int \frac{dt'}{dt'}$$

$$=\frac{e^2a^2\omega_0^2\cos^2(\theta)}{16\pi^2c^3}\left[\frac{t}{2}-\frac{\sin(2\omega_0t)}{4\omega_0}\right]$$

$$\int dV = \frac{e a \omega_o}{16\pi^2 c^3} \left[\frac{L}{2} - \frac{3in(2\omega_o t)}{4\omega_o} \right] Cos(0)ddd$$

$$=\frac{e^2a^2\omega_s^3}{16\pi^2c^3}\left[\frac{t}{2}-\frac{\sin(2\omega_s t)}{4\omega_s}\right]\left[\frac{0}{2}-\frac{\sin(2\theta)}{4}\right]$$

$$|\vec{U}| = R(\cos(\omega_{s}t)\hat{x} + \sin(\omega_{s}t)\hat{y})$$

$$|\vec{V}| = \hat{x} = R(\omega_{s}(-\sin(\omega_{s}t)\hat{x} + \cos(\omega_{s}t)\hat{y})$$

$$\dot{\beta} = \frac{R \omega_0^2 \left(-\cos(\omega_0 t) \hat{x} - \sin(\omega_0 t) \hat{y}\right)}{\left(-\cos(\omega_0 t) \hat{x} - \sin(\omega_0 t) \hat{y}\right)}$$