$$N_B = \overline{M} \times \overline{B} = I(S \times BN)$$

$$I = \frac{\varepsilon}{R} \quad \overline{S} \times \overline{B} = \alpha^2 B \sin(\frac{\pi}{2} - \omega) = \alpha^2 B \cos \theta$$

$$\frac{1}{4} = \alpha^2 \beta \sin \theta N \qquad \frac{1}{4} = \alpha^2 N \beta \cos \theta \theta$$

$$\mathcal{E} = \mathcal{U}_{o} \sin(\omega t) - \frac{d\phi}{dt} = \mathcal{U}_{o} \sin(\omega t) - \alpha^{2} N B \cos \Theta \dot{\Theta}$$

$$N_{\mathcal{B}} = \frac{1}{R} \left(u_{0} \sin \left(\omega t \right) - a^{2} B N \cos \theta \dot{\theta} \right) a^{2} N B \cos \theta$$

$$N_c = N_B - mg \frac{\alpha}{2} - m\Theta$$

$$5nD \rightarrow 0$$
 cos $\Theta \rightarrow 1$

$$T \dot{\Theta} = \frac{U_s \sin(\omega t) a^2 N B}{R} - \frac{a^4 B^2 N^2 \dot{\Theta}}{R} - \frac{mga}{2} \Theta$$

$$\Theta = A e^{\tau \omega^{\dagger}}$$

$$-Aw^{2}e^{i\omega t} = \frac{u_{0}sn(\omega t)a^{2}NB}{RI} - A\frac{a^{4}B^{2}N^{2}}{RI}i\omega e^{i\omega t} - \frac{mga}{2I}Ae^{i\omega t}$$

$$y_{m}\left(i\frac{u_{0}a^{2}NB}{RI}e^{i\omega t}\right)$$

$$A = \frac{4 \sqrt{3} \sqrt{2} \sqrt{8}}{R T} = \frac{7}{mg \alpha} + i \omega \frac{\alpha^4 R^2 N^2}{R T} - \omega^2$$

$$A = \frac{U_0 a^2 NB}{(\frac{mgaR}{2} - 4^2RI) + i \omega a^4B^2N^2}$$

$$|z| = \frac{\alpha^2 + \delta^2}{(\alpha^2 + \delta^2)^2} = \frac{\gamma}{(\alpha^2 + \delta^2)^2}$$

$$|A| = \frac{(\frac{mg}{\alpha} \alpha R - \omega^2 R I)^2 + (\omega \alpha^4 \beta^2 N^2)^2}{(\frac{mg}{\alpha} \alpha R - \omega^2 R I)^2 + (\omega \alpha^4 \beta^2 N^2)^2}$$
Created with

Created with iDroo.com

 $2 = \frac{7}{\alpha + ib} = \frac{\alpha - 7b}{\alpha^2 + b^2}$