$$H = \int_{0}^{2\pi\alpha} \frac{1}{4\pi (\alpha^{2} + \alpha^{2})} dl \cdot \cos\theta$$

$$= \frac{a^2I}{2(\alpha^2+\alpha^2)^{\frac{3}{2}}}$$

$$\overline{\Phi}_{21} = B \cdot S = N_0 H S$$

$$= \frac{N_0 \alpha^2 L}{2(\alpha^2 + \alpha^2)^{\frac{3}{2}}} \cdot b^2 \pi$$

$$M = \frac{2a}{L} = \frac{Noa^3b^3 \pi}{2(a^3 + a^3)^{\frac{3}{2}}}$$

$$|-| = \frac{b^2 I}{2 (b^2 + ol^2)^{\frac{3}{2}}}$$

$$\bar{q}_{12} = \frac{N_0 \alpha^3 b^2 I_{R}}{2 (b^2 + a^2)^{\frac{3}{2}}}$$

$$F = \frac{\partial M}{\partial J} I_1 I_2$$

F