من مرك م الدروريس وترعواني

$$K = \frac{T}{Yna}$$

$$U) \Rightarrow I = \int J \cdot ds = \int \frac{K}{r} \times rrr \cdot dr = rrha$$

$$k = \frac{I}{2\pi a}$$
 => $J = \frac{I}{2\pi a \times \pi a^r}$

$$B(1) = \frac{\mu_{1} \bar{L} \times \frac{\pi}{2}}{4\pi b} = \frac{-\mu_{1} \bar{L}}{8b} \hat{z}$$

$$B(r) = \frac{\mu.I \times \frac{\Omega}{2}}{4na} = \frac{\mu.I}{8a} \frac{2}{3}$$

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$$B_{r} = \frac{M \cdot \overline{I}}{2R} \int \frac{de x \overline{R}}{R^{r}} = \frac{M \cdot \overline{I}}{4R} \int \frac{-dx x^{2} x - x^{2}}{x^{3}} = 0$$

$$B_{(1)} = 0$$
 = , $B_p = \frac{4.12}{8} \left(\frac{1}{a} - \frac{1}{b} \right)$

$$B_1 = B_7 = \frac{M_0 I}{4Ra} \left(\sin \theta_2 - \sin \theta_1 \right) \frac{\theta_2 - \frac{\Omega}{2}}{\theta_1 - \frac{\Omega}{2}}$$

$$B_1 = B_r = \frac{M_r I}{4\pi\sigma}$$

$$B_{cl} = \frac{\mu_{o} \Gamma \propto -\mu_{o} \Gamma}{4\pi \alpha} = \frac{\mu_{o} \Gamma}{\epsilon \alpha}$$

$$\rightarrow B_p = \frac{\text{H.I}}{a} \left(\frac{1}{2n} + \frac{1}{4} \right)$$

$$a+b-l$$
 $dl=dx\hat{x}$

$$2. tor \beta = \alpha R = -x\hat{x} + 2a\hat{y}$$

$$B = \frac{\mu.I}{4\pi} \int_{-b}^{a} \frac{dx \hat{x} \times (-x\hat{x} + z.\hat{y})}{(\sqrt{x^{c} + z.^{c}})^{r}} = \frac{\mu.I}{4\pi} \int_{-z. cga}^{z. cg\beta} \frac{dx z.\hat{z}}{\sqrt{x^{c} + z.^{c}}}$$

$$=\frac{\mu_{\circ}\Gamma z_{\circ}^{2}}{z_{\circ}} \times \frac{\chi}{z_{\circ}^{\prime}\sqrt{\chi^{\prime}+2!}} = \frac{\mu_{\circ}\Gamma}{4\pi z_{\circ}} \left(\frac{\beta i \eta \beta - \beta i \eta \Delta}{4\pi z_{\circ}}\right)$$

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6)
$$= \frac{180 - \frac{360}{h}}{2} = 90 - \frac{1800}{h} = \frac{31}{2} - \frac{31}{h}$$

$$=) B = \frac{n \frac{M}{6} I}{E \pi R \sin \left(\frac{\Omega}{2} - \frac{\Omega}{n}\right)} \left(\sin \left(\frac{\Omega}{2} - \frac{\Omega}{n}\right) - \beta \ln \left(\frac{\Omega}{n} - \frac{\Omega}{2}\right)\right)$$

$$n \rightarrow \infty$$
 $B = B_{rel} = \frac{9 \sqrt{I}}{2R}$

$$7) \qquad K = 6R \sin\theta \omega \hat{p} \qquad 6 = \frac{Q}{4RR^2}$$

$$= \frac{1.6\omega}{4\pi R} \int \sin^2\theta \, d\theta = \frac{1.6\omega}{4\pi R} \int \sin^2\theta \, d\theta = \frac{1.6\omega}{4\pi R}$$

9) in)
$$B = \frac{\text{MoI}}{4n} \oint_{c'} \frac{dl_{x}\hat{r}}{r^2}$$

$$\overrightarrow{\nabla} = -\alpha \hat{r} + z \cdot \hat{z} \qquad d\alpha = \alpha d\beta \hat{\rho}$$

=>
$$B = \frac{4.1}{4\pi} \int_{0}^{2\pi} \frac{a^{2} d\phi \hat{r} + a' d\phi \hat{z}}{(\sqrt{a^{2} + 2^{2}})^{3}} = \frac{M.I}{4\pi} \int_{0}^{\pi} \frac{a^{2} d\phi}{(\sqrt{a^{2} + 2^{2}})^{3}} \frac{M.I}{4\pi} \int_{0}^{\pi} \frac{a^{2} d\phi}{(\sqrt{a^{2} + 2^{2}})^{3}} \frac{1}{4\pi} \frac{M.I}{4\pi} \int_{0}^{\pi} \frac{a^{2} d\phi}{(\sqrt{a^{2} + 2^{2}})^{3}} \frac{M.I}{4\pi} \frac{1}{2\pi} \frac{1}$$

$$\frac{dq}{dt} = \lambda \implies \frac{dq}{dt} = \lambda \frac{dQ}{dt} \Rightarrow \int = \lambda V$$

$$F_b = \frac{\text{Mol}^2 L}{2\pi\alpha} = \frac{\text{Mol}^2 VL}{2\pi\alpha} = \sum_{n=1}^{\infty} \frac{\text{Mol}^2 VL}{2\pi\alpha} = \sum_{n=1}^{\infty} \frac{\text{Mol}^2 VL}{2\pi\alpha} = \frac{\text{Mol}^2 VL$$

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(3)
$$B_{1n} = B_{rn} = M_1 H_{1n} = M_2 H_{2n}$$
 $G_1t = G_1t$

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14) <u>G</u>	$3 = \frac{\mu}{4\pi} \times \frac{1}{r^3} \left[3(m.\hat{r}) \chi - m \right]$
	ρ(R, θ) 2 - (κ, φ) γ - (ος γ γ) adp
	$= \lambda A = \frac{M_0 I}{4\pi} \int -a \sin p \hat{x} + a \cos p \hat{y} dp$
B= 1.	$\frac{m}{10^3} \left(2 \cos \theta \hat{r} + \sum \sin \theta \hat{\theta} \right)$
	$(\hat{v})\hat{v} + (m.\hat{\theta})\hat{\theta} = m(0S\hat{\theta}\hat{v} - mSin\hat{\theta}\hat{\theta})$
) =) 3($m \hat{r}) \hat{r}_{m} = 3m\cos\theta - m\cos\theta + m\sin\theta \hat{\theta}$
	- Ym cus D r + m sin D
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