$$F_{\kappa} = -p_{m_1} \frac{\partial B}{\partial \kappa}$$



δ) β B d = (Bz - Bz) l, ominami Bz = Bz Bz = Mz = 1 Bz = Mz = Mz Bz=BsinB, Bo = Bom = MBnin 8 \$ B d2 = (1-m) l Bmo (\$ B d = \$ B d = + \$ + \$ + \$ ocnimen $\theta = -\frac{1}{2}$, no boun zemeasons) 3.286 Mi Mi Mi Mi M2 Jone B Jone A No meopeuri npo umpr. b-pa H

\$ H dl = Z J; HITZ + Ha TZ = J

$$B(F) = \mu_{1} \mu_{0} H_{1} = \frac{3 \mu_{0} \mu_{1} \mu_{2}}{(\mu_{1} + \mu_{0}) \pi^{2}}$$
3. 288
$$H' = -\frac{3}{3}$$

$$B = \mu_{1} \mu_{0} H$$
3a a approximation cyrephogramic
$$B = B_{0} + B'$$

$$B = B_{0} + B'$$

$$B' = H' \mu_{1} \mu_{0} = -\frac{3 \mu_{1} \mu_{0}}{3}$$

$$J = (\mu - 1) H = \frac{(\mu - 1) B}{\mu_{1} \mu_{0}}$$

$$B = B_{0} - \frac{\mu - 1}{3} B \Rightarrow B = \frac{3 B_{0} \mu_{1}}{2 + \mu_{1}}$$

Ha sparmers pozginy Bin = Bin, ado

B = B = B2.

M, H, = M2 H2

Ha = M, H,

B= nn, A

12 (H, + H1 H,) = J

H1 = T2 (1+ M1) = JM2 (M,+M2)

200 3 288 A' = - 3 Ochinon B - 3 = H, mo B' = (Fort J) no = 2 no J To aprimary agregarogravic B = B + B' Ban = Bo + 2 no J , Flor = Bo - J Bort + 2 Mo Flow = 3 B. Mouone, B= MM. Fl Slowy, H = B = mp.

MM. Flom + 2 M. Flom = 3B. Flan = 3Bo Mo (pres) $\vec{B}_{on} = \frac{3 \mu \vec{B}_o}{\mu + 2}$

3.291

$$\oint \vec{H} d\vec{\ell} = \vec{\Sigma} \vec{J}_{i}$$

$$\vec{\Sigma} \vec{J}_{i} = 0$$

$$H(2\pi\alpha - 6) + H. 6 = 0,$$

Omnee, H= - BB Jdp.

ge H - y marmemany, H s - y zazopi Briggymniams pozeirobanne none oznarac,

mo B= Bo

$$B_{0} = -\frac{2\pi a \cdot 6}{\theta} \text{ ps H} - (1)$$

$$B_{0} = -\frac{2\pi a \cdot 6}{\theta} \text{ ps H} - (1)$$

$$J(H) = \frac{J_{2}}{H_{0}} H + J_{2}$$

$$J_{2}$$

$$J_{1} = \frac{J_{2}}{H_{0}} H + J_{2} + H + J_{2}$$

$$Denominan B = B_{0}, m_{0}$$

$$-\frac{2\pi a \cdot 6}{6} \text{ Ho } H = (\frac{J_{2}}{H_{0}} H + J_{2} + H) \text{ Mo}$$

$$H = -\frac{J_{2}}{4\pi a \cdot 6} + \frac{J_{1}}{4\pi a} + 1$$

$$J_{1} = \frac{J_{2}}{4\pi a \cdot 6} + \frac{J_{1}}{4\pi a} + 1$$

$$J_{2} = \frac{J_{1}}{4\pi a \cdot 6} + \frac{J_{2}}{4\pi a} + 1$$

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$$J_{3} = \frac{J_{2}}{4\pi a} + \frac{J_{2}}{4\pi a} + \frac{J_{2}}{4\pi a} + 1$$

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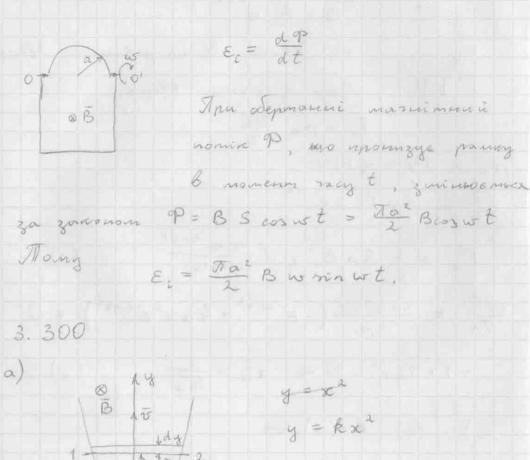
3.294 d=0,5 m N = 800 1 J = 3A B = 2.10 3 m Ochobro unubor mamar-I mingbance resummes minous zamza 0,1 0,2 0,5 0,4 0,5 0,6 H, KA Лотік не розсиненься, а знатив маги. ingyania & sazoni gopilnoce ingyanie 6 cen gernning. Bu m. npo mynogue ujeo m. 6 + H(Td-8) = NJ B(H) = M.NJ - H Admo B(H) = 1,51 - 0,986 H (KA/m) (+) Morna nepembry ganor apubor i znarigenoso p-ne (+) i gacono my range bemman. B = 1.25 Tn , H = 260 Am $M = \frac{B}{M_{\bullet}M} = 3,826.10^3$

$$\frac{\partial F_{x}}{\partial x} = \frac{2aB_{x}^{2} \times V}{\mu \mu_{0}} \left(-e^{-2ax^{2}} + 4ax^{2}e^{-2ax^{2}} \right) = 0$$

$$-1+4\alpha x^2=0 \Rightarrow x_m = \frac{1}{\sqrt{4\alpha^2}}$$

(1)

$$2) \quad (2) \quad 6 \quad (1) \Rightarrow \\ m_{\circ} \in \mathbb{R} \quad (e)$$



$$\mathcal{E}_{i} = -\frac{dP}{dt}$$

$$dP = BdS, \text{ ye } dS = 2\pi dy$$

$$x = \sqrt{\frac{4}{R}}, dS = 2\sqrt{\frac{4}{R}}dy$$