Jackson 5,19 (a) ラ·イニーラが、ラドイニ 「チョロ、シ ガニラ王 学生= 节(前)= 元前 I satisfies poisson of with magnetic polarisation charge / p= # 7.1 がこれ。ショウ·ホェo inside cylinder. Let applying Divergence theorem shows that there is 3. in at top and bottom surface. $\int (\vec{\partial} \cdot \vec{n}) d\gamma = \int \vec{n} \cdot d\vec{a} = 0$ = Mo(Ta2) - Mo(Ta2) = 0. This implies there is charge density" No at top surface and No at bottom surface

$$\frac{\partial}{\partial x} = \frac{1}{4\pi} \int \frac{\rho(x^2)}{|x^2 - x^2|} d^3x^2$$

$$\frac{\partial}{\partial x} = \frac{1}{4\pi} \int \frac{\partial}{|x^2 - x^2|} da_{botton} + \int \frac{\partial}{|x^2 - x^2|} da_{botton}$$

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We obtain
$$\hat{H}$$
 from $\hat{H} = \vec{\nabla} \hat{\Phi}$

Thus dependence on $\hat{\tau}$, so $\hat{H}_{x} = 0$, $\hat{H}_{y} = 0$,

$$\hat{H}_{z} = \frac{\Lambda_{0}}{2} \left[\frac{\left(\frac{L}{2} - \vec{\tau}\right)^{2}}{\left(\frac{L}{2} - \vec{\tau}\right)^{2}} + a^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} + \vec{\tau}\right)^{2}} + a^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} + \vec{\tau}\right)^{2}} + a^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} + \vec{\tau}\right)^{2}} + a^{2}}$$

$$= \frac{\Lambda_{0}}{2} \left[\frac{\left(\frac{L}{2} - \vec{\tau}\right)^{2}}{\left(\frac{L}{2} + \vec{\tau}\right)^{2}} + a^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} + \vec{\tau}\right)^{2}} + a^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} - \vec{\tau}\right)^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} + \vec{\tau}\right)^{2}} + a^{2}}$$

$$= \frac{\Lambda_{0}}{2} \left[\frac{L}{2} - \vec{\tau}\right] \left[\frac{L}{2} + \vec{\tau}\right] + a^{2}}{\left(\frac{L}{2} + \vec{\tau}\right)^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} - \vec{\tau}\right)^{2}} \frac{\left(\frac{L}{2} + \vec{\tau}\right)^{2}}{\left(\frac{L}{2} + \vec{$$

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