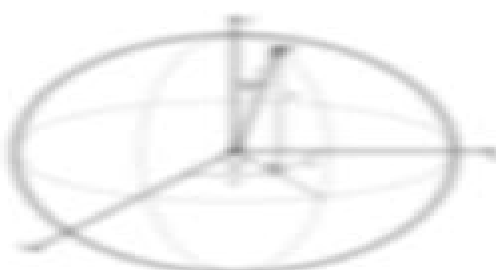


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A total charge Q is distributed uniformly throughout a sphere of radius a . The sphere is then rotated with constant angular speed ω about a diameter. Assume that the charge distribution is unaffected by the rotation, and find \int everywhere within the sphere. (Express \mathbf{r} in spherical coordinates with the polar axis coinciding with the axis of rotation.) Find the total current passing through a hemisphere of radius a fixed in space with its base on the axis of rotation.



$$\begin{aligned}x &= r \sin(\theta) \cos(\phi) \\y &= r \sin(\theta) \sin(\phi) \\z &= r \cos(\theta) \\r &= \sqrt{x^2 + y^2 + z^2} \\\theta &= \cos^{-1} \frac{z}{r} \\\phi &= \tan^{-1} \frac{y}{x}\end{aligned}$$

They do not give us ρ , but they do give us the geometry (radius, density) and the total charge. We can find the density of the charge:

$$\rho_{ch} = \frac{Q}{V} = \frac{Q}{\frac{4}{3}\pi a^3} = \frac{3Q}{4\pi a^3}$$

For the velocity vector:

$$\begin{aligned}\mathbf{v} &= \omega \times \mathbf{r} \\\omega &= \omega \hat{z} \\\mathbf{r} &= r \hat{r} \\\mathbf{v} &= \omega \hat{z} \times r \hat{r} = \omega r (\hat{z} \times \hat{r}) = r \omega \sin(\theta) \hat{\phi}\end{aligned}$$

Therefore,

$$\mathbf{J} = \rho_{ch} \mathbf{v} = \frac{3Q}{4\pi a^3} [\omega r \sin(\theta) \hat{\phi}] = \frac{3Q\omega \sin(\theta)}{4\pi a^2} \hat{\phi}$$

Electromagnetic Fields Wangsness Answers To Problems

Hussin A.Rothana



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