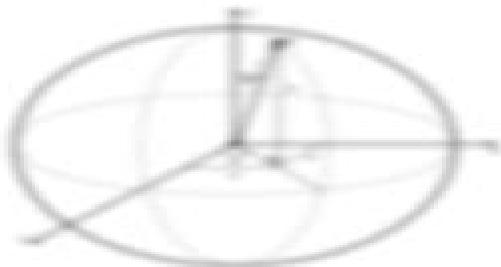


## PROBLEMS 12-13

A point charge  $Q$  is distributed uniformly throughout a sphere of radius  $a$ . The sphere is then rotated with a constant angular speed  $\omega$  about a diameter. Assume that the charge distribution is unchanged by the rotation, and that  $J$  represents either the angular momentum or the equivalent current associated with the polar axis connecting with the axis of rotation.) Find the total current passing through a concentric shell of radius  $r$  (that is open with the plane of the axis of rotation).



$$\begin{aligned} J &= m\omega \sin(\theta) \hat{r} \\ j &= m\omega \sin(\theta) \hat{r} \\ J &= m\omega \sin(\theta) \hat{r} \\ j &= m\sqrt{2R^2 - r^2} \sin(\theta) \hat{r} \\ j &= m\omega \sin(\theta) \hat{r} \\ j &= m\omega \sin(\theta) \frac{R}{r} \hat{r} \end{aligned}$$

They do not give us  $j$ , but they do give us the geometry (distance, velocity) and the total charge. We can find the density of the charge:

$$\rho_{tot} = \frac{Q}{V} = \frac{Q}{\frac{4}{3}\pi R^3} = \frac{3Q}{4\pi R^3}$$

The charge density remains:

$$\begin{aligned} j &= \rho_{tot} v \sin(\theta) \hat{r} \\ j &= \rho_{tot} \omega R \sin(\theta) \hat{r} \\ j &= \rho_{tot} \omega R \sin(\theta) \hat{r} \\ j &= m\omega \sin(\theta) \hat{r} \end{aligned}$$

$$J = j_{tot} \hat{r} = \frac{m\omega}{R} \int_{-R}^{+R} \sin^2(\theta) d\theta \hat{r} = \frac{2m\omega \cos(\theta)}{R} \hat{r}$$

# Electromagnetic Fields Wangsness Answers To Problems

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