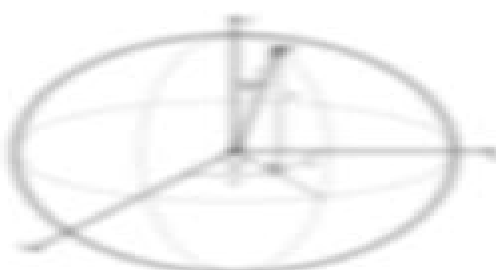


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A total charge Q is distributed uniformly throughout a sphere of radius a . The sphere is then rotated with constant angular speed ω about a diameter. Assume that the charge distribution is unaffected by the rotation, and find \int everywhere within the sphere. (Express 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:

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

Therefore,

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

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Table of Contents Electromagnetic Fields Wangsness Answers To Problems

1. Understanding the eBook Electromagnetic Fields Wangsness Answers To Problems
 - The Rise of Digital Reading Electromagnetic Fields Wangsness Answers To Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Electromagnetic Fields Wangsness Answers To Problems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electromagnetic Fields Wangsness Answers To Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electromagnetic Fields Wangsness Answers To Problems
 - Personalized Recommendations
 - Electromagnetic Fields Wangsness Answers To Problems User Reviews and Ratings
 - Electromagnetic Fields Wangsness Answers To Problems and Bestseller Lists
5. Accessing Electromagnetic Fields Wangsness Answers To Problems Free and Paid eBooks
 - Electromagnetic Fields Wangsness Answers To Problems Public Domain eBooks
 - Electromagnetic Fields Wangsness Answers To Problems eBook Subscription Services
 - Electromagnetic Fields Wangsness Answers To Problems Budget-Friendly Options

6. Navigating Electromagnetic Fields Wangsness Answers To Problems eBook Formats
 - ePub, PDF, MOBI, and More
 - Electromagnetic Fields Wangsness Answers To Problems Compatibility with Devices
 - Electromagnetic Fields Wangsness Answers To Problems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electromagnetic Fields Wangsness Answers To Problems
 - Highlighting and Note-Taking Electromagnetic Fields Wangsness Answers To Problems
 - Interactive Elements Electromagnetic Fields Wangsness Answers To Problems
8. Staying Engaged with Electromagnetic Fields Wangsness Answers To Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electromagnetic Fields Wangsness Answers To Problems
9. Balancing eBooks and Physical Books Electromagnetic Fields Wangsness Answers To Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electromagnetic Fields Wangsness Answers To Problems
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electromagnetic Fields Wangsness Answers To Problems
 - Setting Reading Goals Electromagnetic Fields Wangsness Answers To Problems
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electromagnetic Fields Wangsness Answers To Problems
 - Fact-Checking eBook Content of Electromagnetic Fields Wangsness Answers To Problems
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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