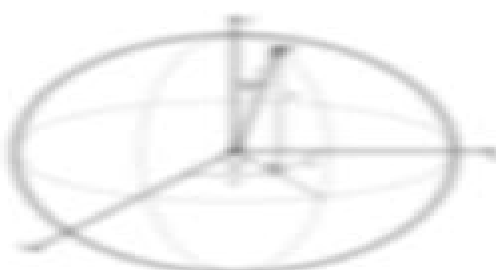


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A total charge  $Q$  is distributed uniformly throughout a sphere of radius  $a$ . The sphere is then rotated with constant angular speed  $\omega$  about a diameter. Assume that the charge distribution is unaffected by the rotation, and find  $\int$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

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

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

**Peter William Atkins, Ronald  
Friedman, R. S. Friedman**



## **Electromagnetic Fields Wangsness Answers To Problems:**

**Electromagnetic Fields** Roald K. Wangsness, 1979-06-01      **BioElectroMagnetics** Riadh Habash, 2020-05-04 This book is an educational resource of evolving scientific knowledge in the area of bioelectromagnetics that may serve the interests of students and decision makers as well as society as a whole. It is distinguished by extensive descriptions of fundamental biophysical concepts and their relevance to human health. Reflecting the transdisciplinary approach from several different intellectual streams including physics, biology, epidemiology, medicine, environment, risk science, and engineering, the book is quite a venture into the battling studies to assess the latest research on health effects and biomedical applications of EM energy. This new edition of the book particularly looks at the potential threats from the emerging 5G wireless networks which will deploy large numbers of low powered smartphones, notebooks, tablets, radio access networks, and other transmitters. Features: Introduces necessary biophysical principles of EM fields in the context of their interaction with living systems; Strengthens understanding of cutting edge research on several major areas in the broad area of bioelectromagnetics; Presents safety standards and guidelines for human exposure to EM fields; Discusses techniques that have been developed to ensure adequate EM thermal dosimetry required for both health effects and biomedical applications; Provides insight into the determinants of EM health risk assessment and public concerns; Includes extensive reference list at the end of each chapter to enhance further study. Riadh Habash is a special appointment professor and McLaughlin Research Chair in Electromagnetic Fields and Health at the University of Ottawa, Canada. He has been the recipient of many awards including the National Wighton Fellowship Award and has authored or co-authored over 90 research articles, six books, and five book chapters. His most recent books are *Green Engineering* in 2017 and *Professional Practice* in 2019, CRC Press, with the remaining previous books targeting the area of bioelectromagnetics.      **Electric Field Analysis** Sivaji

Chakravorti, 2017-12-19 *Electric Field Analysis* is both a student friendly textbook and a valuable tool for engineers and physicists engaged in the design work of high voltage insulation systems. The text begins by introducing the physical and mathematical fundamentals of electric fields, presenting problems from power and dielectric engineering to show how the theories are put into practice. The book then describes various techniques for electric field analysis and their significance in the validation of numerically computed results as well as. Discusses finite difference, finite element, charge simulation, and surface charge simulation methods for the numerical computation of electric fields. Provides case studies for electric field distribution in a cable termination around a post insulator in a condenser bushing and around a gas insulated substation GIS spacer. Explores numerical field calculation for electric field optimization, demonstrating contour correction and examining the application of artificial neural networks. Explains how high voltage field optimization studies are carried out to meet the desired engineering needs. *Electric Field Analysis* is accompanied by an easy to use yet comprehensive software for electric field computation. The software along with a wealth of supporting content is available for download with qualifying course

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**AAPT Announcer** American Association of Physics Teachers,1980     **Introduction to Electromagnetic Fields. Answers to Problems, Etc** Samuel Seely,1960     **Electromagnetic Fields** Roald K. Wangsness,1986-07-24 This revised edition provides patient guidance in its clear and organized presentation of problems It is rich in variety large in number and provides very careful treatment of relativity One outstanding feature is the inclusion of simple standard examples demonstrated in different methods that will allow students to enhance and understand their calculating abilities There are over 145 worked examples virtually all of the standard problems are included     The British National Bibliography Arthur James Wells,1979     American Journal of Physics ,1987     Intermediate Dynamics Patrick Hamill,2010 Intended for the two semester upper division undergraduate Classical Mechanics course Intermediate Dynamics provides a student friendly approach The text begins with an optional review of elementary physical concepts and continues to an in depth study of mechanics Each chapter includes numerous accessible exercises that help students review and understand key material while rigorous end of chapter problems challenge students to find solutions based on concepts discussed in the chapter Additional computer problems are offered at the end of each chapter for those who would like to utilize numerical techniques     The British National Bibliography Cumulated Subject Catalogue ,1960     New Technical Books New York Public Library,1980     **Whitaker's Cumulative Book List** ,1979     *Progress in Physics, vol. 1/2009* Dmitri Rabounski ,Florentin Smarandache,Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and

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