

At a given instant, a certain system has a current density given by $\vec{J} = A(x^2\hat{x} + y^2\hat{y} + z^2\hat{z})$ where A is a positive constant.

a) In what units will be A measured?

$$\vec{J} [=] \frac{\text{Ampere}}{\text{m}^2} \rightarrow \frac{\text{Ampere}}{\text{m}^2} = A\text{m}^2$$

$$A [=] \frac{\text{Ampere}}{\text{m}^2}$$

b) At this instant, what is the rate of change of the charge density at the point $(2, -1, 4)$ meter?

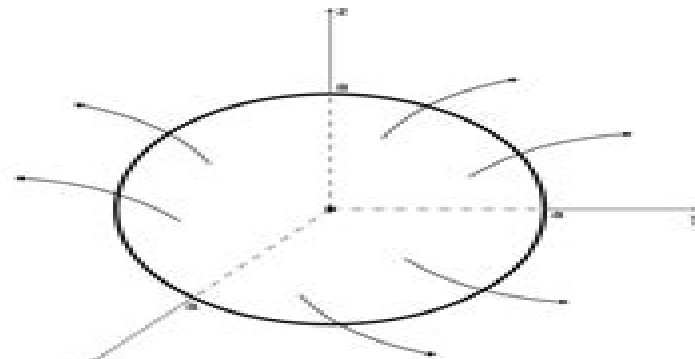
$$\vec{\nabla} \cdot \vec{J} = - \frac{\partial \rho}{\partial t} \rightarrow \frac{\partial \rho}{\partial t} = -\vec{\nabla} \cdot \vec{J}$$

$$\vec{\nabla} \cdot \vec{J} = \left(\frac{\partial}{\partial x} \hat{x} + \frac{\partial}{\partial y} \hat{y} + \frac{\partial}{\partial z} \hat{z} \right) \cdot A(x^2\hat{x} + y^2\hat{y} + z^2\hat{z})$$

$$\vec{\nabla} \cdot \vec{J} = A(3x^2 + 3y^2 + 3z^2) = 3A(x^2 + y^2 + z^2)$$

$$\frac{\partial \rho}{\partial t} = -\vec{\nabla} \cdot \vec{J} = -3A[(2)^2 + (-1)^2 + (4)^2] = -63A$$

c) Consider the total charge Q contained within a sphere of radius a centered at the origin. At this instant, what is the rate at which Q is charging in time? Is Q increasing or decreasing?



$$\frac{dQ}{dt} = - \int_0^{2\pi} \int_0^\pi \int_0^a (3Ar^2) r^2 \sin\theta dr d\theta d\phi = -3A(2\pi)(2) \left(\frac{a^5}{5} \right) = -\frac{12}{5} A\pi a^5$$

\rightarrow THE CHARGE DECREASES

$$\oint_C \vec{J} \cdot d\vec{a} = - \frac{dQ}{dt}$$

Applying the divergence theorem

$$\oint_C \vec{J} \cdot d\vec{a} = \int_V \vec{\nabla} \cdot \vec{J} d\tau$$

$$\int_V \vec{\nabla} \cdot \vec{J} d\tau = - \frac{dQ}{dt}$$

$$\vec{\nabla} \cdot \vec{J} = 3A(x^2 + y^2 + z^2) = 3Ar^2$$

Wangsness Electromagnetic Fields Solution Chapter

Roald K. Wangsness



Wangsness Electromagnetic Fields Solution Chapter :

Electromagnetic Fields Roald K. Wangsness, 1979 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 **Dark matter and dark energy... a solution** Francisco Gutiérrez de la Cruz, 2019-04-01

According to current observations two mysterious phenomena appear in the universe that science has not yet explained These are mass or dark matter and dark energy It is known of the existence of dark matter among other effects by the study of the rotation of galaxies where it is appreciated that the outer stars should come out tangentially if only the gravitational force of the mass seen is considered concluding that there must be a hidden mass or matter or perhaps some unknown effect that implies greater gravitational force On the other hand based on the observations of astronomer Hubble in the twenties of the previous century it was determined that the universe is expanding from its origin or big bang considering that the gravitational force between galaxies causes expansion to be increasingly slower The surprise was that at the end of the last century it was observed that in the distant galaxies there was no retreat but they accelerated that is they are increasingly separated more quickly ignoring the precedence of the energy that produces the effect to which was named dark energy In this small book a suggestive proposal is exposed describing effects in the movement of bodies of great mass that can be applied to the understanding of the origin of the dark matter and dark energy considering that in the process of expansion the dark mass is transformed into dark energy fulfilling the laws of conservation of energy and the linear momentum

Conquering the Physics GRE Yoni Kahn, Adam Anderson, 2018-03-01 The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph D programs yet few exam prep books focus on the test s actual content and unique structure Recognized as one of the best student resources available this tailored guide has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score **Intermediate Electromagnetic Theory** Joseph V. Stewart, 2001 This invaluable text has been developed to provide students with more background on the applications of electricity and magnetism particularly with those topics which relate to current research For example waveguides both metal and dielectric are discussed more thoroughly than in most texts because they are an important laboratory tool and important components of modern

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explains the objectives of the physics laboratory and the skills you must master to maintain a Notebook and analyze data and presents a general discussion of spectroscopy experiments The second section discusses the unique and valuable role of the computer in the laboratory and explains how to use it software is included with the text The final section contains over twenty experiments providing students with a broad introduction into the use of a variety of instruments for carrying out many different measurements *American Journal of Physics* ,1999 **Journal of the British Astronomical Association** ,1979 **Canadian Journal of Chemistry** ,1995 **Whitaker's Cumulative Book List** ,1986 AAPT Announcer American Association of Physics Teachers,1979 **Physics Briefs** ,1989 **Computer Modeling in Engineering & Sciences** ,2004

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