

Capítulo 12

1. Exercício 16.1: temos a condição inicial $C\Delta\varphi = Q_0$, que é a carga inicial no capacitor, após ter sido carregado. Também temos que $\mathcal{J} = g\mathbf{E}$. Usando a equação da continuidade, dada por

$$\frac{\partial \rho}{\partial t} + \nabla \cdot \mathcal{J} = 0$$

ficamos com

$$\frac{\partial \rho}{\partial t} + g\nabla \cdot \mathbf{E} = 0$$

e, usando a eq. de maxwell $\nabla \cdot \mathbf{E} = \frac{\rho}{\epsilon}$, ficamos com (tendo integrado no volume)

$$\frac{\partial q(t)}{\partial t} = -\frac{g}{\epsilon}q(t)$$

o que dá, após integração e substituição da condição inicial, o resultado

$$q(t) = C\Delta\varphi_0 e^{-t/\tau},$$

como desejado. O item (b) pode ser obtido imediatamente a partir da derivação do resultado anterior e é dado por

$$i(t) = -\frac{g}{\epsilon}C\Delta\varphi_0 e^{-t/\tau}.$$

Finalmente, o item (c) é imediatamente obtido como $\mathcal{B} = 0$ pela simetria do problema.

2. Exercício 16.3: O item (a) pode ser obtido se usarmos a equação de Maxwell

$$\nabla \times \mathbf{H} = \frac{\partial \mathbf{D}}{\partial t} = \mathcal{J}$$

e a integramos sobre a superfície do dielétrico. A integral de superfície de $\nabla \times \mathbf{H}$ torna-se uma integral de linha sobre \mathbf{H} e a integral de superfície sobre \mathbf{D} é simples de ser obtida, já que \mathbf{D} é constante. Assim, ficamos com

$$\oint_C \mathbf{H} \cdot d\mathcal{L} = \frac{\partial \mathbf{D}}{\partial t} \cdot \iint_S n dA,$$

onde já usamos o fato de que, no dielétrico, $\mathcal{J} = 0$. Assim, ficamos com (note que \mathbf{H} é constante sobre C , por simetria)

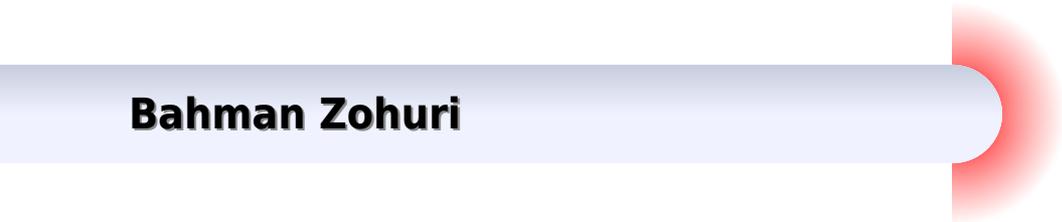
$$2\pi a H_\phi = \pi a^2 \frac{\partial D_z}{\partial t},$$

onde já expressamos o resultado em termos das componentes distintas de zero dos campos. Assim,

$$H_\phi = \frac{1}{2} a \frac{\partial D_z}{\partial t}.$$

Reitz Electromagnetic Solutions

Bahman Zohuri



Reitz Electromagnetic Solutions:

Solutions Manual to Foundations of Electromagnetic Theory Reitz, 1993-01 Foundations of Electromagnetic Theory John R. Reitz, Frederick John Milford, 1960 Vector analysis Electrostatics Solution of electrostatic problems The electrostatic field in dielectric media Microscopic theory of dielectrics Electrostatic energy Electric current The magnetic field of steady currents Electromagnetic induction Magnetic properties of matter Microscopic theory of the magnetic properties of matter Magnetic energy Slowly varying currents Physics of plasmas Maxwell's equations Applications of Maxwell's equations Electrodynamics Appendix I Logical definitions of mks units Appendix II Other systems of units Appendix III Proof that $\text{div } \mathbf{B} = 0$ and $\text{curl } \mathbf{B} = \mu_0 \mathbf{j}$ *Foundations of Electromagnetic Theory* John R. Reitz, 2009-09

Catalogue for the Academic Year Naval Postgraduate School (U.S.), 1970 **Introduction to Electromagnetic Nondestructive Test Methods** H. L. Libby, 1971-01-15 **Inertial Confinement Fusion Driven Thermonuclear Energy** Bahman Zohuri, 2017-01-26 This book takes a holistic approach to plasma physics and controlled fusion via Inertial Confinement Fusion ICF techniques establishing a new standard for clean nuclear power generation Inertial Confinement Fusion techniques to enable laser driven fusion have long been confined to the black box of government classification due to related research on thermonuclear weapons applications This book is therefore the first of its kind to explain the physics mathematics and methods behind the implosion of the Nd Glass tiny balloon pellet using reliable and thoroughly referenced data sources The associated computer code and numerical analysis are included in the book No prior knowledge of Laser Driven Fusion and no more than basic background in plasma physics is required **Introduction to Magnetism and Magnetic Materials** David Jiles, 2015-09-18 A long overdue update this edition of Introduction to Magnetism and Magnetic Materials is a complete revision of its predecessor While it provides relatively minor updates to the first two sections the third section contains vast updates to reflect the enormous progress made in applications in the past 15 years particularly in magnetic recording **Introductory Engineering Electromagnetics** Branko D. Popović, 1971 **Introductory Electromagnetics** Zoya B. Popović, Branko D. Popović, 2000 Modern Introductory Electromagnetics relates physical principles to engineering practice with a number of application deriving mathematical tools from physical concepts when needed Antenna Synthesis through the Characteristics of Desired Amplitude Mykhaylo I. Andriyчук, 2019-09-12 The book is devoted to the synthesis problems that arise in the theory and design of radiating systems antennas The characteristics of desired amplitude are data placed into a synthesis problem A synthesis problem belongs to a class of inverse problems and its aim is to determine a distribution of current or fields in an antenna which produces the amplitude radiation characteristic as close as possible to the desired one Freedom of choice of phase distribution of the desired radiation pattern RP is used as an additional possibility of better approximation to such RPs This book studies various different types of antennas and arrays as the radiation systems under consideration A special class of problems related to

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National Union Catalog ,1979 Includes entries for maps and atlases

Computational Electromagnetics Using Boundary Elements Jinxing Shen,1995

Catalogue Stevens Institute of Technology,1971

British Books in Print ,1971

Catalogue Case Institute of Technology,1961

The Encyclopedia of Physics Robert Besancon,2013-11-11

Nuclear Science Abstracts ,1960

IEEE Proceedings of the Southeastcon ,1991

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