

DRILL PROBLEMS : CHAPTER 2

D2.1

(a) $\mathbf{R}_{AB} = (5+6) \mathbf{a}_x + (8-4) \mathbf{a}_y + (-2-7) \mathbf{a}_z = 11\mathbf{a}_x + 4\mathbf{a}_y - 9\mathbf{a}_z$

(b) $R_{AB} = \sqrt{11^2 + 4^2 + 9^2} = 14.76 \text{ m}$

(c) $F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \frac{(10^{-9})}{36\pi} (14.76^2)} \mathbf{a}_{BA} = -0.0413 \frac{(-11\mathbf{a}_x - 4\mathbf{a}_y + 9\mathbf{a}_z)}{14.76} = 30.78\mathbf{a}_x + 11.19\mathbf{a}_y - 25.18\mathbf{a}_z \text{ mN}$

(d) $F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \times 8.854 \times 10^{-12} (14.76^2)} \mathbf{a}_{BA} = -0.04125 \frac{(-11\mathbf{a}_x - 4\mathbf{a}_y + 9\mathbf{a}_z)}{14.76} = 30.74\mathbf{a}_x + 11.18\mathbf{a}_y - 25.15\mathbf{a}_z \text{ mN}$

D2.2

(a) $\mathbf{r} - \mathbf{r}_A = -25\mathbf{a}_x + 30\mathbf{a}_y - 15\mathbf{a}_z, |\mathbf{r} - \mathbf{r}_A| = 41.43$

$\mathbf{r} - \mathbf{r}_B = 10\mathbf{a}_x - 8\mathbf{a}_y - 12\mathbf{a}_z, |\mathbf{r} - \mathbf{r}_B| = 17.54$

$E_A = -1.57 \frac{(-25\mathbf{a}_x + 30\mathbf{a}_y - 15\mathbf{a}_z)}{41.43} = 9480\mathbf{a}_x - 11300\mathbf{a}_y + 5600\mathbf{a}_z$

$E_B = 14.61 \frac{(10\mathbf{a}_x - 8\mathbf{a}_y - 12\mathbf{a}_z)}{17.54} = 83300\mathbf{a}_x - 66600\mathbf{a}_y - 99900\mathbf{a}_z$

$E_T = E_A + E_B = 9248\mathbf{a}_x - 77.9\mathbf{a}_y - 94.3\mathbf{a}_z \frac{\text{kV}}{\text{m}}$

(b) $\mathbf{r} - \mathbf{r}_A = -10\mathbf{a}_x + 50\mathbf{a}_y + 35\mathbf{a}_z, |\mathbf{r} - \mathbf{r}_A| = 61.84$

$\mathbf{r} - \mathbf{r}_B = 25\mathbf{a}_x + 12\mathbf{a}_y + 38\mathbf{a}_z, |\mathbf{r} - \mathbf{r}_B| = 47.04$

$E_A = -7050 \frac{(-10\mathbf{a}_x + 50\mathbf{a}_y + 35\mathbf{a}_z)}{61.84} = 1140\mathbf{a}_x - 5700\mathbf{a}_y - 3990\mathbf{a}_z$

$E_B = 20300 \frac{(25\mathbf{a}_x + 12\mathbf{a}_y + 38\mathbf{a}_z)}{47.04} = 10700\mathbf{a}_x + 5180\mathbf{a}_y + 16400\mathbf{a}_z$

$E_T = E_A + E_B = 1184\mathbf{a}_x - 52\mathbf{a}_y + 1241\mathbf{a}_z \frac{\text{kV}}{\text{m}}$

D2.3

(a) $\text{Sum} = 2 + 0 + \frac{2}{5} + 0 + \frac{2}{17} + 0 = 2.517$

(b) $\text{Sum} = \frac{1.1}{11.18} + \frac{1.01}{22.62} + \frac{1.001}{46.05} + \frac{1.0001}{89.44} = 0.1755$



Theory And Computation Of Electromagnetic Fields Solution Manual

M. V. K. Chari, Peter Peet Silvester



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Scientific and Technical Aerospace Reports, 1983

International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2004) Theodore Simos, George Maroulis, 2019-04-29 The International Conference of Computational Methods in Sciences and Engineering ICCMSE is unique in its kind It regroups original contributions from all fields of the traditional Sciences Mathematics Physics Chemistry Biology Medicine and all branches of Engineering The aim of the conference is to bring together computational scientists from several disciplines in order to share methods and ideas More than 370 extended abstracts have been submitted for consideration for presentation in ICCMSE 2004 From these 289 extended abstracts have been selected after international peer review by at least two independent reviewers

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Okhmatovski, Shucheng Zheng, 2024-04-23 Explore the algorithms and numerical methods used to compute electromagnetic fields in multi layered media In *Theory and Computation of Electromagnetic Fields in Layered Media* two distinguished electrical engineering researchers deliver a detailed and up to date overview of the theory and numerical methods used to determine electromagnetic fields in layered media The book begins with an introduction to Maxwell s equations the fundamentals of electromagnetic theory and concepts and definitions relating to Green s function It then moves on to solve canonical problems in vertical and horizontal dipole radiation describe Method of Moments schemes discuss integral equations governing electromagnetic fields and explains the Michalski Zheng theory of mixed potential Green s function representation in multi layered media Chapters on the evaluation of Sommerfeld integrals procedures for far field evaluation and the theory and application of hierarchical matrices are also included along with A thorough introduction to free space Green s functions including the delta function model for point charge and dipole current Comprehensive explorations of the traditional form of layered medium Green s function in three dimensions Practical discussions of electro quasi static and magneto quasi static fields in layered media including electrostatic fields in two and three dimensions In depth examinations of the rational function fitting method including direct spectra fitting with VECTFIT algorithms Perfect for scholars and students of electromagnetic analysis in layered media *Theory and Computation of Electromagnetic Fields in Layered Media* will also earn a place in the libraries of CAD industry engineers and software developers working in the area of computational electromagnetics

INIS Atomindex, 1987 **International Conference on Computation in Electromagnetics, 25-27 November 1991** Institution of Electrical Engineers. Electronics Division, 1991 Government Reports Annual Index, 1994 Software Applications in Electrical Engineering P. P. Silvester, 1993 **Field Computation by Moment Methods** Roger F. Harrington, 1982 An IEEE reprinting of this classic 1968 edition **FIELD COMPUTATION BY MOMENT METHODS** is the first book to explore the computation of electromagnetic fields by the most popular method for the numerical solution to electromagnetic field problems It presents a unified approach to moment methods by employing the concepts of linear spaces and functional analysis Written especially for those who have a minimal amount of experience in electromagnetic theory this book illustrates theoretical and mathematical concepts to prepare all readers with the skills they need to apply the method of moments to new engineering related problems Written especially for those who have a minimal amount of experience in electromagnetic theory theoretical and mathematical concepts are illustrated by examples that prepare all readers with the skills they need to apply the method of moments to new engineering related problems

Electrical Performance of Electronic Packaging, 1999 Electromagnetic Field Theory Gerd Mrozynski, Matthias Stallein, 2012-07-06 After a brief introduction into the theory of electromagnetic fields and the definition of the field quantities the book teaches the analytical solution methods of Maxwell s equations by means of several characteristic examples The focus is on static and stationary electric and magnetic fields quasi stationary fields and electromagnetic waves

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Table of Contents Theory And Computation Of Electromagnetic Fields Solution Manual

1. Understanding the eBook Theory And Computation Of Electromagnetic Fields Solution Manual
 - The Rise of Digital Reading Theory And Computation Of Electromagnetic Fields Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Theory And Computation Of Electromagnetic Fields Solution Manual
 - 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 Theory And Computation Of Electromagnetic Fields Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Theory And Computation Of Electromagnetic Fields Solution Manual
 - Personalized Recommendations
 - Theory And Computation Of Electromagnetic Fields Solution Manual User Reviews and Ratings
 - Theory And Computation Of Electromagnetic Fields Solution Manual and Bestseller Lists

5. Accessing Theory And Computation Of Electromagnetic Fields Solution Manual Free and Paid eBooks
 - Theory And Computation Of Electromagnetic Fields Solution Manual Public Domain eBooks
 - Theory And Computation Of Electromagnetic Fields Solution Manual eBook Subscription Services
 - Theory And Computation Of Electromagnetic Fields Solution Manual Budget-Friendly Options
6. Navigating Theory And Computation Of Electromagnetic Fields Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Theory And Computation Of Electromagnetic Fields Solution Manual Compatibility with Devices
 - Theory And Computation Of Electromagnetic Fields Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Theory And Computation Of Electromagnetic Fields Solution Manual
 - Highlighting and Note-Taking Theory And Computation Of Electromagnetic Fields Solution Manual
 - Interactive Elements Theory And Computation Of Electromagnetic Fields Solution Manual
8. Staying Engaged with Theory And Computation Of Electromagnetic Fields Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Theory And Computation Of Electromagnetic Fields Solution Manual
9. Balancing eBooks and Physical Books Theory And Computation Of Electromagnetic Fields Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Theory And Computation Of Electromagnetic Fields Solution Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Theory And Computation Of Electromagnetic Fields Solution Manual
 - Setting Reading Goals Theory And Computation Of Electromagnetic Fields Solution Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Theory And Computation Of Electromagnetic Fields Solution Manual
 - Fact-Checking eBook Content of Theory And Computation Of Electromagnetic Fields Solution Manual
 - 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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