

DRILL PROBLEMS : CHAPTER 2

D2.1

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

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

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

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

D2.2

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

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

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

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

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

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

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

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

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

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

D2.3

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

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



Theory And Computation Of Electromagnetic Fields Solution Manual

Alan W. Rudge



Theory And Computation Of Electromagnetic Fields Solution Manual:

Theory and Computation of Electromagnetic Fields Jian-Ming Jin, 2015-08-26 Reviews the fundamental concepts behind the theory and computation of electromagnetic fields The book is divided in two parts The first part covers both fundamental theories such as vector analysis Maxwell's equations boundary condition and transmission line theory and advanced topics such as wave transformation addition theorems and fields in layered media in order to benefit students at all levels The second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications These methods include the three fundamental approaches for numerical analysis of electromagnetic fields the finite difference method the finite difference time domain method in particular the finite element method and the integral equation based moment method The second part also examines fast algorithms for solving integral equations and hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems Theory and Computation of Electromagnetic Fields Second Edition Provides the foundation necessary for graduate students to learn and understand more advanced topics Discusses electromagnetic analysis in rectangular cylindrical and spherical coordinates Covers computational electromagnetics in both frequency and time domains Includes new and updated homework problems and examples Theory and Computation of Electromagnetic Fields Second Edition is written for advanced undergraduate and graduate level electrical engineering students This book can also be used as a reference for professional engineers interested in learning about analysis and computation skills

Finite Elements in Electrical and Magnetic Field Problems M. V. K. Chari, Peter Peet Silvester, 1980 Finite elements the basic concepts and an application to 3 D magnetostatic problems The fundamental equations of electric and magnetic fields Shape functions Software engineering aspects of finite elements Finite element solution of magnetic and electric field problems in electrical machines and devices Numerical analysis of Eddy Current problems The high order polynomial finite element method in electromagnetic field computation Transient solution of the diffusion equation by discrete Fourier transformation Mutually constrained partial differential and integral equation field formulations Applications of integral equation methods to the numerical solution of magnetostatic and Eddy Current problems

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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