DRILL PROBLEMS : CHAPTER 2

D 2.1

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

(c) $F_{BA} = \dfrac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi\left(\frac{10^{-9}}{36\pi}\right)(14.76^2)} \quad a_{ba} = -0.0413 \dfrac{(-11a_x - 4a_y + 9a_z)}{14.76} = 30.78a_x + 11.195a_y - 25.18a_z$ mN

(d) $F_{BA} = \dfrac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \times 8.854 \times 10^{-12}(14.76^2)} \quad a_{ba} = -0.04125 \dfrac{(-11a_x - 4a_y + 9a_z)}{14.76} = 30.74a_x + 11.18a_y - 25.15a_z$ mN

D 2.2

(a) $r - r_A = -25a_x + 30a_y - 15a_z, \ |r - r_A| = 41.43$
$r - r_B = 10a_x - 8a_y - 12a_z, \ |r - r_B| = 17.54$
$E_A = -1.57 \dfrac{(-25a_x + 30a_y - 15a_z)}{41.43} = 9480a_x - 11300a_y + 5600a_z$
$E_B = 14.61 \dfrac{(10a_x - 8a_y - 12a_z)}{17.54} = 83300a_x - 66600a_y - 99900a_z$
$E_T = E_A + E_B = 92.48a_x - 77.9a_y - 94.3a_z \ \frac{kV}{m}$

(b) $r - r_A = -10a_x + 50a_y + 35a_z, \ |r - r_A| = 61.84$
$r - r_B = 25a_x + 12a_y + 38a_z, \ |r - r_B| = 47.04$
$E_A = -7050 \dfrac{(-10a_x + 50a_y + 35a_z)}{61.84} = 1140a_x - 5700a_y - 3990a_z$
$E_B = 20300 \dfrac{(25a_x + 12a_y + 38a_z)}{47.04} = 10700a_x + 5180a_y + 16400a_z$
$E_T = E_A + E_B = 11.84a_x - 0.52a_y + 12.41a_z \ \frac{kV}{m}$

D 2.3

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

(b) $Sum = \frac{1.1}{11.18} + \frac{1.01}{32.62} + \frac{1.001}{46.87} + \frac{1.0001}{89.44} = 0.1755$

Theory And Computation Of Electromagnetic Fields Solution Manual

Martijn van Beurden,Neil V. Budko,Gabriela Ciuprina,Wil Schilders,Harshit Bansal,Ruxandra Barbulescu

Theory And Computation Of Electromagnetic Fields Solution Manual:

Theory and Computation of Electromagnetic Fields in Layered Media Vladimir Okhmatovski,Shucheng Zheng,2024-04-09 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   **Theory and Computation of Electromagnetic Fields** Jian-Ming Jin,2015-09-15 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

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