Solution to the Drill problems of chapter 02 (Engineering Electromagnetics, Hayt, A. Buck 7th ed) BEE 4A.4B & 4C

Following Exercise questions are IMPORTANT!

2.4, 2.5, 2.13, 2.14, 2.16, 2.17, 2.18, 2.19, 2.22, 2.23, 2.27, 2.28, 2.29, 2.30, 2.31

D2.1 (a).  $Q_A = -20\mu C$  located at A(-6.4.7)  $Q_B = 50\mu C$  located at B(5.8.-2) Find Ran

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

(b),  $|\vec{R}_{AB}| = \sqrt{(11^2) + 4^2 + (-9)^2} = 14.76m$ 

(c).  $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi \epsilon_o \mid \vec{R}_{AB} \mid^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times (10^{-9}/36\pi) \mid 14.76 \mid^3)$  $\Rightarrow \vec{F}_{AB} = 30.76\hat{a}_x + 11.184\hat{a}_y - 25.16\hat{a}_z mN$ 

(d)  $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi \epsilon_o |\vec{R}_{AB}|^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times 8.85 \times 10^{-12} |14.76|^3)$  $\Rightarrow \vec{F}_{AB} = 30.72\hat{a}_x + 11.169\hat{a}_y - 25.13\hat{a}_z mN$ 

D2.2(a).  $Q_A = -0.3\mu C$  located at A(25,-30,15) in cm  $Q_B = 0.5\mu C$  located at B(-10,8,12)

Find  $\vec{E}$  at the origin O(0.0.0).

Let  $\vec{E}$  at the origin is denoted by  $\vec{E}_{\alpha}$  and it will be the sum of  $\vec{E}_{A}$  (  $\vec{E}$  due to  $Q_{A}$  located at point A) and  $\vec{E}_B$  (  $\vec{E}$  due to  $Q_B$  located at point B)

 $\vec{E}_A = Q_A \vec{R}_{OA} / 4\pi \epsilon_o | \vec{R}_{OA} |^3$ 

 $\vec{R}_{OA} = (0 - 25)\hat{a}_x + (0 - (-30))\hat{a}_y + (0 - 15)\hat{a}_z = (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)cm$ 

 $|\vec{R}_{OA}| = \sqrt{(-25)^2 + (30)^2 + (-15)^2} = 41.83cm$ 

 $\vec{E}_A = (-0.3 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 10^{-2}/4\pi$ 

 $\vec{E}_B = Q_B \vec{R}_{OB}/4\pi\epsilon_o |\vec{R}_{OB}|^3$ 

 $\vec{R}_{OB} = (0 - (-10))\hat{a}_x + (0 - 8)\hat{a}_y + (0 - 12)\hat{a}_z = (10\hat{a}_x - 8\hat{a}_u - 12\hat{a}_z)cm$ 

 $|\vec{R}_{OB}| = \sqrt{(10)^2 + (-8)^2 + (-12)^2} = 17.55cm$ 

 $\vec{E}_B = (0.5 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |17.55 \times 10^{-2}|^3 = 8317.36(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$  $\vec{E}_{\alpha} = \vec{E}_{A} + \vec{E}_{B} = (-368.55(-25\hat{a}_{x} + 30\hat{a}_{y} - 15\hat{a}_{z})) + 8317.36(10\hat{a}_{x} - 8\hat{a}_{y} - 12\hat{a}_{z}) = (92.3\hat{a}_{x} - 77.6\hat{a}_{y} - 94.2\hat{a}_{z})KV/m$ 

(b). Find \(\vec{E}\) at the point P(15,20,50).

It is the same as part(a) but this time we have to calculate  $\vec{R}_{PA}$  and  $\vec{R}_{PB}$  and the rest of the problem is similar to part(a)

D2.3 (a).

 $\Sigma_0^2((1+(-1)^m)/(m^2+1)) = (1+(-1)^0)/(0^2+1) + (1+(-1)^1)/(1^2+1) + (1+(-1)^2)/(2^2+1) + (1+(-1)^3)/(3^2+1) +$  $1) + (1 + (-1)^4)/(4^2 + 1) + (1 + (-1)^5)/(5^2 + 1) = 2 + 0 + 2/5 + 0 + 2/17 + 0 = 2.52$ 

(b). Similar to the part(a)

D2.4 (a). 0.1 ≤ (| x |, | y |, | z |) ≤ 0.2 , given ranges of x,y and z co-ordinates doesnot constitute a cubical volume so  $dv = 0 \Rightarrow Q = \int_{vol} \rho_v dv = 0$ 

(b). Differential volume in cylindrical co-ordinates is given by  $dv = \rho d\rho d\phi dz$ , we have  $Q = \int_{vol} \rho_v dv$ 

 $\begin{array}{l} \Rightarrow Q = \int_{-\pi} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \int_0^\pi \int_2^4 (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \rho^3 d\rho \int_0^\pi (\sin(0.6)\phi) d\phi \int_2^4 dz \\ \Rightarrow Q = \mid \rho^3/4\mid_0^{0.1} \times \mid (-\cos(0.6\phi))/0.6\mid_0^5 \times \mid z\mid_2^4 = \mid (0.1)^4/4\mid \times \mid (-\cos(108^0) - (-\cos(0)))/0.6\mid \times \mid (64-8)/3\mid Q = \mid (0.1)^4/4\mid \times \mid (1.31)/0.6\mid \times \mid 56/3\mid = 1.018mC \end{array}$ 

<sup>&</sup>lt;sup>b</sup>This document is prepared in BTEN. (Email: ahmadsajjad01@cut.net.pk)

# **Engineering Electromagnetics 7th Edition Chapter Problems Solutions**

Albert Ruehli, Giulio Antonini, Lijun Jiang

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presentation of physical laws in the chronological order of their discovery that starts with Coulomb's Law The use of Maxwell s Equations provides broad physical laws of general applicability and prevents confusion among students as to when specific laws may be applied A problem solving or engineering analysis approach is used extensively throughout this text Real life problems are presented and then reduced to an appropriate model or facsimile for solution This publication is intended for engineering students at junior or senior level Antenna Theory Constantine A. Balanis, 2016-02-01 Updated with color and gray scale illustrations a companion website housing supplementary material and new sections covering recent developments in antenna analysis and design This book introduces the fundamental principles of antenna theory and explains how to apply them to the analysis design and measurements of antennas Due to the variety of methods of analysis and design and the different antenna structures available the applications covered in this book are made to some of the most basic and practical antenna configurations Among these antenna configurations are linear dipoles loops arrays broadband antennas aperture antennas horns microstrip antennas and reflector antennas The text contains sufficient mathematical detail to enable undergraduate and beginning graduate students in electrical engineering and physics to follow the flow of analysis and design Readers should have a basic knowledge of undergraduate electromagnetic theory including Maxwell's equations and the wave equation introductory physics and differential and integral calculus Presents new sections on flexible and conformal bowtie Vivaldi antenna antenna miniaturization antennas for mobile communications dielectric resonator antennas and scale modeling Provides color and gray scale figures and illustrations to better depict antenna radiation characteristics Includes access to a companion website housing MATLAB programs Java based applets and animations Power Point notes Java based interactive questionnaires and a solutions manual for instructors Introduces over 100 additional end of chapter problems Antenna Theory Analysis and Design Fourth Edition is designed to meet the needs of senior undergraduate and beginning graduate level students in electrical engineering and physics as well as practicing engineers and antenna designers Constantine A Balanis received his BSEE degree from the Virginia Tech in 1964 his MEE degree from the University of Virginia in 1966 his PhD in Electrical Engineering from The Ohio State University in 1969 and an Honorary Doctorate from the Aristotle University of Thessaloniki in 2004 From 1964 to 1970 he was with the NASA Langley Research Center in Hampton VA and from 1970 to 1983 he was with the Department of Electrical Engineering of West Virginia University In 1983 he joined Arizona State University and is now Regents Professor of Electrical Engineering Dr Balanis is also a life fellow of the IEEE Electromagnetics Edward J. Rothwell, Michael J. Cloud, 2018-10-03 Providing an ideal transition from introductory to advanced concepts Electromagnetics Second Edition builds a foundation that allows electrical engineers to confidently proceed with the development of advanced EM studies research and applications This second edition of a popular text continues to offer coverage that spans the entire field from electrostatics to the integral solutions of Maxwell's equations The book provides a firm grounding in the fundamental concepts of electromagnetics and bolsters understanding through the

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