

**1 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  $\vec{R}_{AB}$

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

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

$$(c). \vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 \quad |\vec{R}_{AB}|^2 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times (10^{-9} / 36\pi) \times 14.76)^2$$

$$\Rightarrow \vec{F}_{AB} = 30.76\hat{a}_x + 11.184\hat{a}_y - 25.166\hat{a}_z \text{mN}$$

$$(d). \vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 \quad |\vec{R}_{AB}|^2 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times 8.85 \times 10^{-12} \times 14.76)^2$$

$$\Rightarrow \vec{F}_{AB} = 30.72\hat{a}_x + 11.169\hat{a}_y - 25.133\hat{a}_z \text{mN}$$

**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  $\vec{E}_o$  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)

$$\vec{E}_A = Q_A \vec{R}_{OA} / 4\pi\epsilon_0 \quad |\vec{R}_{OA}|^2$$

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

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

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

$$\vec{E}_B = Q_B \vec{R}_{OB} / 4\pi\epsilon_0 \quad |\vec{R}_{OB}|^2$$

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

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

$$\vec{E}_B = (0.5 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2} / 4\pi \times 8.85 \times 10^{-12} \times |17.55 \times 10^{-2}|^2 = 8317.36(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$$

$$\vec{E}_o = \vec{E}_A + \vec{E}_B = (-368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)) + 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) = (92.3\hat{a}_x - 77.6\hat{a}_y - 94.2\hat{a}_z)\text{KV/m}$$

**(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).**

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

**(b).** Similar to the part(a)

**D2.4 (a).**  $0.1 \leq (|x| + |y| + |z|) \leq 0.2$  , given ranges of x,y and z co-ordinates does not 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  $Q = \int_{vol} \rho_v dv$

$$\Rightarrow Q = \int_{vol} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \int_0^{\pi} \int_0^z (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \rho^3 d\rho \int_0^z (\sin(0.6)\phi) d\phi \int_0^z dz$$

$$\Rightarrow Q = [(\rho^4 / 4) \int_0^{\pi} \times [(-\cos(0.6\phi))] / 0.6] \int_0^z [z]_0^z = [0.1^4 / 4] \times [(-\cos(108^\circ)) - (-\cos(0))] / 0.6 \times [64 - 8] / 3$$

$$\Rightarrow Q = [0.1^4 / 4] \times [(-\cos(108^\circ)) - (-\cos(0))] / 0.6 \times [64 - 8] / 3 = 1.018\text{mC}$$

<sup>1</sup>This document is prepared in L<sup>A</sup>T<sub>E</sub>X. (Email: ahmedsajjad101@ciit.net.pk)

# Engineering Electromagnetics Drill Solution

**Stuart M. Wentworth**

## **Engineering Electromagnetics Drill Solution:**

Fundamentals of Electromagnetics with Engineering Applications Stuart M. Wentworth,2005 **Engineering Electromagnetics** William Hart Hayt (Jr.),1967 **Elements of Engineering Electromagnetics** Nannapaneni Narayana Rao,2004 This book with its versatile approach includes thorough coverage of statics with an emphasis on the dynamics of engineering electromagnetics It integrates practical applications numerical details and completely covers all relevant principles Topics include vectors and fields Maxwell's Equations fields and waves electromagnetic potentials devices circuits and systems and transmission line essentials for digital electronics The second part of the book covers communications guided wave principles electronics and photonics and radiation and antennae A valuable resource for computer engineering and electrical engineering professionals *Engineering Electromagnetics* William Hart Hayt,1974 Now in its Seventh Edition Bill Hayt and John Buck's Engineering Electromagnetics is a classic book that has been updated for electromagnetics today This widely respected book stresses fundamentals and problem solving and discusses the material in an understandable readable way Numerous illustrations and analogies are provided to aid the reader in grasping difficult concepts In addition independent learning is facilitated by the presence of many examples and problems Important updates and revisions have been included in this edition One of the most significant changes is the repositioning and rewriting of the transmission lines chapter This chapter is now ahead of the plane waves chapter and can be used at any point in the course including at the beginning Book jacket *Applied Electromagnetics* Stuart M. Wentworth,2007-01-09 The revolution in wireless communications calls for a new focus in the electrical engineering curriculum Stuart M Wentworth fills that need with his new Applied Electromagnetics A Transmission Lines First Approach Incorporating the popular MATLAB program throughout it features practical applications for wireless systems transmission lines waveguides including optical fiber antennas and microwave systems Designed for use in a one or two semester sequence at the junior and senior level it offers students both detailed theoretical grounding and hands on experience in harmony with today's professional practice

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**Record ... Catalog ... Announcements** Clemson Agricultural College of South Carolina,1929    **Petroleum Abstracts** ,1996    **Engineering Electromagnetics** Balanis,Constantine A.

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Harris,1990-03-16 A guide to economic optimization of mineral exploration decisions with detailed information on how to analyze risk and obtain a good measure of net value Presents a unified approach to the various models used by mining companies to analyze mining prospects and evaluates and compares the models Presents typical risk scenarios and shows how to apply the economic modeling process to actual situations    NASA Tech Briefs ,1992    Mining Engineering ,1963

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has never been more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Engineering Electromagnetics Drill Solution**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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