

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

(c). $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 |\vec{R}_{AB}|^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times (10^{-9}/36\pi) |14.76|^3)$
 $\Rightarrow \vec{F}_{AB} = 30.76\hat{a}_x + 11.184\hat{a}_y - 25.16\hat{a}_z mN$

(d). $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 |\vec{R}_{AB}|^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times 8.85 \times 10^{-12} |14.76|^3)$
 $\Rightarrow \vec{F}_{AB} = 30.72\hat{a}_x + 11.169\hat{a}_y - 25.13\hat{a}_z mN$

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}_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)

$$\vec{E}_A = Q_A \vec{R}_{OA} / 4\pi\epsilon_0 |\vec{R}_{OA}|^3$$

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

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

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

$$\vec{E}_B = Q_B \vec{R}_{OB} / 4\pi\epsilon_0 |\vec{R}_{OB}|^3$$

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

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

$$\vec{E}_B = (0.5 \times 10^{-6}) \times (10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) \times 10^{-2} / 4\pi \times 8.85 \times 10^{-12} \times |17.55 \times 10^{-2}|^3 = 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z)$$

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

(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).

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

(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 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 $Q = \int_{vol} \rho_v dv$

$$\Rightarrow Q = \int_{vol} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \int_0^{0.2} \int_0^{2\pi} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \rho^2 d\rho \int_0^{2\pi} (\sin(0.6)\phi) d\phi \int_0^{0.2} z^2 dz$$

$$\Rightarrow Q = [\rho^3/4]_0^{0.1} \times [(-\cos(0.6\phi))/0.6]_0^{2\pi} \times [z^3/3]_0^{0.2} = [(0.1)^3/4] \times [(-\cos(108^\circ) - (-\cos(0)))/0.6] \times [(64 - 8)/3]$$

$$\Rightarrow Q = [(0.1)^3/4] \times [(1.31)/0.6] \times [56/3] = 1.018mC$$

¹This document is prepared in L^AT_EX. (Email: ahmadsajjad01@com.net.pk)

Drill Problems Solution Of Engineering Electromagnetics

Michael Rajnik



Drill Problems Solution Of Engineering Electromagnetics:

Fundamentals of Electromagnetics with Engineering Applications Stuart M. Wentworth, 2005 **Engineering Electromagnetics** William Hart Hayt, John A. Buck, 2006 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 Jacket *Applied Electromagnetics* Stuart M. Wentworth, 2025-09-09 A timely and authoritative update to a leading text on the applied electromagnetics of transmission lines In the newly revised second edition of *Applied Electromagnetics Early Transmission Lines Approach* experienced engineer and professor Stuart Wentworth delivers an up to date and authoritative discussion of the electromagnetic foundations of signal transmission The book explains practical applications for wireless systems transmission lines waveguides including optical fiber and antennas Wentworth provides a detailed theoretical grounding of the subject and combines it with hands on MATLAB simulations available on the web that help students understand critical concepts Brand new end of chapter problems at a broad range of difficulty levels Many more drill and example problems Worked solutions provided on the companion website Extensively updated material as well as entirely new material on metamaterials and patch antennas Perfect for undergraduate students of electrical engineering *Applied Electromagnetics Early Transmission Lines Approach* will also benefit researchers and educators in electrical engineering *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 (Jr.), 1967 Proceedings, 1998 Mutual Coupling Between Antennas Trevor S. Bird, 2021-06-28 *Mutual Coupling Between Antennas* A guide to mutual coupling between various types of antennas in arrays such as wires apertures and microstrip patches or antennas co sited on platforms *Mutual Coupling Between Antennas* explores the theoretical underpinnings of mutual coupling offers an up to date description of the physical effects of mutual coupling for a variety of antennas and contains techniques for analysing and assessing its effects The book puts the topic in historical context presents an integral equation approach includes the current techniques measurement methods and discusses the most recent advances in the field With contributions from noted experts on the topic the book reviews practical aspects of mutual coupling and examines applications that clearly demonstrate where

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Electromagnetic Concepts and Applications Stanley V. Marshall, Gabriel G. Skitek, 1990 **Choice** Richard K. Gardner, Phyllis Grumm, 1976 ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976 Scientific and Technical Aerospace Reports, 1990

ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1976 **Finite Element Analysis: With Numeric And Symbolic Matlab** John Edward Akin, 2022-12-02 This comprehensive compendium presents the detailed theory implementation and application of finite element analysis via heavily commented Matlab scripts The book includes over 110 examples of the methods and has a very detailed subject index It uniquely illustrates the use of symbolic Matlab capabilities to derive element interpolation functions and to analytically integrated complicated element matrices The useful volume text is suitable as a reference on finite element methods and efficient Matlab programming Chapters prominently end with a detailed summary of the important features and tables of useful finite element matrices It can be used as the textbook for introductory intermediate or advanced courses utilizing numerically integrated and curvilinear element *Medicine Meets Virtual Reality 22* J.D. Westwood, S.W.

Westwood, L. Felländer-Tsai, 2016-04-19 In the early 1990s a small group of individuals recognized how virtual reality VR could transform medicine by immersing physicians students and patients in data more completely Technical obstacles delayed progress but VR is now enjoying a renaissance with breakthrough applications available for healthcare This book presents papers from the Medicine Meets Virtual Reality 22 conference held in Los Angeles California USA in April 2016 Engineers physicians scientists educators students industry military and futurists participated in its creative mix of unorthodox thinking and validated investigation The topics covered include medical simulation and modeling imaging and visualization robotics haptics sensors physical and mental rehabilitation tools and more Providing an overview of the state of the art this book will interest all those involved in medical VR and in innovative healthcare generally **ERDA Research Abstracts**, 1976 Electromagnetic Well Logging Wilson C. Chin, 2014-03-19 Mathematically rigorous computationally fast and easy to use this new approach to electromagnetic well logging gives the reservoir engineer a new dimension to MWD

LWD interpretation and tool design Almost all publications on borehole electromagnetics deal with idealizations that are not acceptable physically On the other hand exact models are only available through detailed finite element or finite difference analysis and more often than not simply describe case studies for special applications In either case the models are not available for general use and the value of the publications is questionable This new approach provides a rigorous fully three dimensional solution to the general problem developed over almost two decades by a researcher familiar with practical applications and mathematical modeling Completely validated against exact solutions and physics based checks through over a hundred documented examples the self contained model with special built in matrix solvers and iteration algorithms with a plain English graphical user interface has been optimized to run extremely fast seconds per run as opposed to minutes and hours and then automatically presents all electric and magnetic field results through integrated three dimensional color graphics In addition to state of the art algorithms basic utility programs are also developed such as simple dipole methods Biot Savart large diameter models nonlinear phase and amplitude interpolation algorithms and so on Incredibly useful to oilfield practitioners this volume is a must have for serious professionals in the field and all the algorithms have undergone a laborious validation process with real use in the field

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