

D1.1 (a). $\vec{R}_{MN} = N(3, -3, 0) - M(-1, 2, 1) = (4, -5, -1) = 4\hat{a}_x - 5\hat{a}_y - \hat{a}_z$

(b). $\vec{R}_{MP} = P(-2, -3, -4) - M(-1, 2, 1) = (-1, -5, -5)$
 $\vec{R}_{MN} + \vec{R}_{MP} = (4, -5, -1) + (-1, -5, -5) = (3, -10, -6) = 3\hat{a}_x - 10\hat{a}_y - 6\hat{a}_z$

(c). $\vec{r}_M = M(-1, 2, 1) - O(0, 0, 0) = (-1, 2, 1)$, $|\vec{r}_M| = \sqrt{(-1)^2 + (2)^2 + (1)^2} = 2.45$

(d). $\hat{a}_{MP} = \vec{R}_{MP} / |\vec{R}_{MP}|$, $\vec{R}_{MP} = (-1, -5, -5) = -\hat{a}_x - 5\hat{a}_y - 5\hat{a}_z$, $|\vec{R}_{MP}| = \sqrt{(-1)^2 + (-5)^2 + (-5)^2} = 7.1414$
 $\Rightarrow \hat{a}_{MP} = (-\hat{a}_x - 5\hat{a}_y - 5\hat{a}_z) / 7.1414 = -0.14\hat{a}_x - 0.7\hat{a}_y - 0.7\hat{a}_z$

(e). $\vec{r}_P = P(-2, -3, -4) - O(0, 0, 0) = (-2, -3, -4)$
 $\Rightarrow 2\vec{r}_P = 2 \times (-2, -3, -4) = (-4, -6, -8)$
 $\vec{r}_N = N(3, -3, 0) - O(0, 0, 0) = (3, -3, 0)$
 $\Rightarrow 3\vec{r}_N = 3 \times (3, -3, 0) = (9, -9, 0)$
 $\Rightarrow 2\vec{r}_P - 3\vec{r}_N = (-4, -6, -8) - (9, -9, 0) = (-4 - 9, -6 + 9, -8 - 0) = -13\hat{a}_x + 3\hat{a}_y - 8\hat{a}_z$
 $\Rightarrow |2\vec{r}_P - 3\vec{r}_N| = \sqrt{(-13)^2 + (3)^2 + (-8)^2} = \sqrt{242} = 15.56$

D1.2 (a). $S = 125 \{ (x-1)\hat{a}_x + (y-2)\hat{a}_y + (z+1)\hat{a}_z \} / \{ (x-1)^2 + (y-2)^2 + (z+1)^2 \}$, $P(2, 4, 3)$
 $\Rightarrow SP(2,4,3) = 125 \{ (2-1)\hat{a}_x + (4-2)\hat{a}_y + (3+1)\hat{a}_z \} / \{ (2-1)^2 + (4-2)^2 + (3+1)^2 \}$
 $\Rightarrow SP(2,4,3) = 125 \{ \hat{a}_x + 2\hat{a}_y + 4\hat{a}_z \} / \{ (1)^2 + (2)^2 + (4)^2 \} = 125 \{ \hat{a}_x + 2\hat{a}_y + 4\hat{a}_z \} / 21$
 $\Rightarrow SP(2,4,3) = 5.95\hat{a}_x + 11.90\hat{a}_y + 23.8\hat{a}_z$

(b). $\hat{a}_S = SP(2,4,3) / |SP(2,4,3)| = (5.95\hat{a}_x + 11.90\hat{a}_y + 23.8\hat{a}_z) / \sqrt{(5.95)^2 + (11.90)^2 + (23.8)^2}$
 $\Rightarrow \hat{a}_S = 0.218\hat{a}_x + 0.436\hat{a}_y + 0.873\hat{a}_z$

(c). We are given that $|S| = 1$
 $\Rightarrow 125 \left\{ \frac{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}}{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}} \right\} / \{ (x-1)^2 + (y-2)^2 + (z+1)^2 \} = 1$
 $\Rightarrow 125 \left\{ \frac{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}}{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}} \right\} = (x-1)^2 + (y-2)^2 + (z+1)^2$
 $\Rightarrow 125 \left\{ \frac{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}}{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}} \right\} = \sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2} \times \sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}$
 $\Rightarrow \sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2} = 125$

D1.3 (a). $\vec{R}_{AB} = B(-2, 3, -4) - A(6, -1, 2) = (-2 - 6, 3 + 1, -4 - 2) = (-8, 4, -6) = -8\hat{a}_x + 4\hat{a}_y - 6\hat{a}_z$

(b). $\vec{R}_{AC} = C(-3, 1, 5) - A(6, -1, 2) = (-3 - 6, 1 + 1, 5 - 2) = (-9, 2, 3) = -9\hat{a}_x + 2\hat{a}_y + 3\hat{a}_z$

(c). $\vec{R}_{AB} \cdot \vec{R}_{AC} = |\vec{R}_{AB}| |\vec{R}_{AC}| \cos \theta_{BAC} \Rightarrow \cos \theta_{BAC} = (\vec{R}_{AB} \cdot \vec{R}_{AC}) / (|\vec{R}_{AB}| |\vec{R}_{AC}|)$
 $\Rightarrow \cos \theta_{BAC} = \{ (-8)(-9) + (4)(2) + (-6)(3) \} / \left\{ \sqrt{(-8)^2 + (4)^2 + (-6)^2} \times \sqrt{(-9)^2 + (2)^2 + (3)^2} \right\}$
 $\Rightarrow \cos \theta_{BAC} = 62 / \sqrt{(116)(94)} \Rightarrow \cos \theta_{BAC} = 62 / 104.422 = 0.5937 \Rightarrow \theta_{BAC} = \arccos(0.5937) = 53.6^\circ$

(d). First we need to find the scalar component of \vec{R}_{AB} in the direction of \vec{R}_{AC} , and that scalar component is $|\vec{R}_{AB}| \cos \theta_{BAC} = \vec{R}_{AB} \cdot \vec{R}_{AC} / |\vec{R}_{AC}|$ (from part(c)), then we need to find a unit vector in the direction of \vec{R}_{AC} which is given by $\hat{a}_{R_{AC}} = \vec{R}_{AC} / |\vec{R}_{AC}|$, now multiply these two components to find the vector projection of \vec{R}_{AB} on \vec{R}_{AC}
 $\Rightarrow \left(\vec{R}_{AB} \cdot \vec{R}_{AC} / |\vec{R}_{AC}| \right) \left(\vec{R}_{AC} / |\vec{R}_{AC}| \right)$, we have already calculated all the values present in the last formula in part (c), so using these values we get $\left(62 / \sqrt{94} \right) \left((-9\hat{a}_x + 2\hat{a}_y + 3\hat{a}_z) / \sqrt{94} \right) = -5.94\hat{a}_x + 1.319\hat{a}_y + 1.979\hat{a}_z$

¹This document is prepared in L^AT_EX. (Email: ahmedsa@ieee01@ce80.net.pk)

Drill Problems Solution Of Engineering Electromagnetics Chapter 1

Stuart M. Wentworth



Drill Problems Solution Of Engineering Electromagnetics Chapter 1:

Electromagnetic Concepts and Applications Stanley V. Marshall, Gabriel G. Skitek, 1990 **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 **Midwest Engineer**, 1958

Applied Electromagnetics Stuart M. Wentworth, 2025-08-05 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

Choice Richard K. Gardner, Phyllis Grumm, 1976 Fundamentals of Electromagnetics with Engineering Applications Stuart M. Wentworth, 2005 *Electronic & Radio Engineer*, 1958 Electronic Technology, 1958 **The Log Analyst**, 1993 **Proceedings of the IRE.**, 1950 Elements of Engineering Electromagnetics Nannapaneni Narayana Rao, 2000 Successful text with a versatile approach including thorough coverage of statics with an emphasis on the dynamics of engineering electromagnetics It integrates practical applications numerical details and the thorough coverage of principles NEW Two part coverage Fundamental Elements and Applied Elements Associates the chapters on Applied Elements with major technologies based on Maxwell's equations Serves the needs of twenty first century electromagnetics education with Chapters 1-6 comprehensive for a one semester introductory course and Chapters 7-12 accessible for follow up on elective courses for electrical engineering majors NEW Material on Crosstalk on Transmission Lines Pulse Broadening in Dispersive Medium and Finite Difference Time Domain Method Topics previously covered in higher level courses now becoming increasingly important to be taught in beginning courses because of advances in technology NEW Review problems Follow homework problems in each chapter Serve as review of material covered in a chapter by integrating concepts introduced in

more than one section of the chapter Uniform plane waves Presents topic immediately following Maxwell

Electromagnetics Problem Solver , Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems All your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available Nothing remotely as comprehensive or as helpful exists in their subject anywhere Perfect for undergraduate and graduate studies Here in this highly useful reference is the finest overview of electromagnetics currently available with hundreds of electromagnetics problems that cover everything from dielectrics and magnetic fields to plane waves and transmission lines Each problem is clearly solved with step by step detailed solutions

DETAILS The **PROBLEM SOLVERS** are unique the ultimate in study guides They are ideal for helping students cope with the toughest subjects They greatly simplify study and learning tasks They enable students to come to grips with difficult problems by showing them the way step by step toward solving problems As a result they save hours of frustration and time spent on groping for answers and understanding They cover material ranging from the elementary to the advanced in each subject They work exceptionally well with any text in its field **PROBLEM SOLVERS** are available in 41 subjects Each **PROBLEM SOLVER** is prepared by supremely knowledgeable experts Most are over 1000 pages **PROBLEM SOLVERS** are not meant to be read cover to cover They offer whatever may be needed at a given time An excellent index helps to locate specific problems rapidly

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Transmission Lines Input Impedances Smith Chart Matching Reflection Coefficient Chapter 14 Wave Guides and Antennas Cutoff Frequencies for TE and TM Modes Propagation and Attenuation Constants Field Components in Wave Guides Absorbed and Transmitted Power Characteristics of Antennas Radiated and Absorbed Power of Antennas SECTION II Summary of Electromagnetic Propagation in Conducting Media II 1 Basic Equations and Theorems Maxwell's Equation Auxiliary Potentials Harmonic Time Variation Particular Solutions for an Unbounded Homogeneous Region with Sources Poynting Vector Reciprocity Theorem Boundary Conditions Uniqueness Theorems TM and TE Field Analysis II 2 Plane Waves Uniform Plane Waves Nonuniform Plane Waves Reflection and Refraction at a Plane Surface Refraction in a Conducting Medium Surface Waves Plane Waves in Layered Media Impedance Boundary Conditions Propagation into a conductor with a Rough Surface II 3 Electromagnetic Field of Dipole Sources Infinite Homogeneous Conducting Medium Semi Infinite Homogeneous Conducting Medium Static Electric Dipole Harmonic Dipole Sources Far Field Near Field Quasi Static Field Layered Conducting Half Space II 4 Electromagnetic Field of Long Line Sources and Finite Length Electric Antennas Infinite Homogeneous Conducting Medium Long Line Source Finite Length Electric Antenna Semi Infinite Homogeneous Conducting Medium Long Line Source Finite Length Electric Antenna Layered Conducting Half Space Long Line Source Finite Length Electric Antenna Appendix Parameters of Conducting Media Dipole Approximation Scattering Antenna Impedance ELF and VLF Atmospheric Noise Index WHAT THIS BOOK IS FOR Students have generally found electromagnetics a difficult subject to understand and learn Despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of electromagnetics continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems Various interpretations of electromagnetics terms also contribute to the difficulties of mastering the subject In a study of electromagnetics REA found the following basic reasons underlying the inherent difficulties of electromagnetics No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems This results from numerous different conditions and principles involved in a problem which leads to many possible different solution methods To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial and error Current textbooks normally explain a given principle in a few pages written by an electromagnetics professional who has insight into the subject matter not shared by others These explanations are often written in an abstract manner that causes confusion as to the principle's use and application Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises Accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or

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students want to look up a particular type of problem and solution they can readily locate it in the book by referring to the index that has been extensively prepared It is also possible to locate a particular type of problem by glancing at just the material within the boxed portions Each problem is numbered and surrounded by a heavy black border for speedy identification

Engineering Electromagnetics Balanis, Constantine A. Balanis, 1989-10-24 Electromagnetics Editors of Rea, Research and Education Association Editors, 1984-01-17 Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems All your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available Nothing remotely as comprehensive or as helpful exists in their subject anywhere Perfect for undergraduate and graduate studies Here in this highly useful reference is the finest overview of electromagnetics currently available with hundreds of electromagnetics problems that cover everything from dielectrics and magnetic fields to plane waves and transmission lines Each problem is clearly solved with step by step detailed solutions

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Engineering Electromagnetics. Solutions to Problems William Hart Hayt,1958 **Elements of Engineering Electromagnetics** Nannapaneni Narayana Rao,1987 **Electromagnetics for Engineers** Ulaby,2005-02-01
Electromagnetics for Engineers Fawwaz T Ulaby, Ph.D.,2008-09-01 **Solved Problems in Electromagnetics** Félix Salazar Bloise,Rafael Medina Ferro,Ana Bayón Rojo,Francisco Gascón Latasa,2016-10-27 This book presents the fundamental concepts of electromagnetism through problems with a brief theoretical introduction at the beginning of each chapter The present book has a strong didactic character It explains all the mathematical steps and the theoretical concepts connected with the development of the problem It guides the reader to understand the employed procedures to learn to solve the exercises independently The exercises are structured in a similar way The chapters begin with easy problems increasing progressively in the level of difficulty This book is written for students of physics and engineering in the framework of the new European Plans of Study for Bachelor and Master and also for tutors and lecturers *Engineering Electromagnetics* William H. Hayt,196?

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In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Drill Problems Solution Of Engineering Electromagnetics Chapter 1**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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