

Fundamentals of Electromagnetics with Engineering Applications 1st Edition Wentworth Solutions Manual

Solutions for Chapter 2 Problems

1. Vectors in the Cartesian Coordinate System

P2.1: Given $P(4,2,1)$ and $\mathbf{A}_{PQ} = 2\mathbf{a}_x + 4\mathbf{a}_y + 6\mathbf{a}_z$, find the point Q .

$$\mathbf{A}_{PQ} = 2\mathbf{a}_x + 4\mathbf{a}_y + 6\mathbf{a}_z = (Q_x - P_x)\mathbf{a}_x + (Q_y - P_y)\mathbf{a}_y + (Q_z - P_z)\mathbf{a}_z$$

$$Q_x - P_x = Q_x - 4 = 2; \quad Q_x = 6$$

$$Q_y - P_y = Q_y - 2 = 4; \quad Q_y = 6$$

$$Q_z - P_z = Q_z - 1 = 6; \quad Q_z = 7$$

Ans: $Q(6,6,7)$

P2.2: Given the points $P(4,1,0)\text{m}$ and $Q(1,3,0)\text{m}$, fill in the table and make a sketch of the vectors found in (a) through (f).

	Vector	Mag	Unit Vector
a. Find the vector \mathbf{A} from the origin to P	$\mathbf{A}_{OP} = 4\mathbf{a}_x + 1\mathbf{a}_y$	4.12	$\mathbf{a}_{OP} = 0.97\mathbf{a}_x + 0.24\mathbf{a}_y$
b. Find the vector \mathbf{B} from the origin to Q	$\mathbf{B}_{OQ} = 1\mathbf{a}_x + 3\mathbf{a}_y$	3.16	$\mathbf{a}_{OQ} = 0.32\mathbf{a}_x + 0.95\mathbf{a}_y$
c. Find the vector \mathbf{C} from P to Q	$\mathbf{C}_{PQ} = -3\mathbf{a}_x + 2\mathbf{a}_y$	3.61	$\mathbf{a}_{PQ} = -0.83\mathbf{a}_x + 0.55\mathbf{a}_y$
d. Find $\mathbf{A} + \mathbf{B}$	$\mathbf{A} + \mathbf{B} = 5\mathbf{a}_x + 4\mathbf{a}_y$	6.4	$\mathbf{a} = 0.78\mathbf{a}_x + 0.62\mathbf{a}_y$
e. Find $\mathbf{C} - \mathbf{A}$	$\mathbf{C} - \mathbf{A} = -7\mathbf{a}_x + 1\mathbf{a}_y$	7.07	$\mathbf{a} = -0.99\mathbf{a}_x + 0.14\mathbf{a}_y$
f. Find $\mathbf{B} - \mathbf{A}$	$\mathbf{B} - \mathbf{A} = -3\mathbf{a}_x + 2\mathbf{a}_y$	3.6	$\mathbf{a} = -0.83\mathbf{a}_x + 0.55\mathbf{a}_y$

a. $\mathbf{A}_{OP} = (4-0)\mathbf{a}_x + (1-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 4\mathbf{a}_x + 1\mathbf{a}_y$.

$$|\mathbf{A}_{OP}| = \sqrt{4^2 + 1^2} = \sqrt{17} = 4.12$$

$$\mathbf{a}_{OP} = \frac{4}{\sqrt{17}}\mathbf{a}_x + \frac{1}{\sqrt{17}}\mathbf{a}_y = 0.97\mathbf{a}_x + 0.24\mathbf{a}_y$$

(see Figure P2.2ab)

b. $\mathbf{B}_{OQ} = (1-0)\mathbf{a}_x + (3-0)\mathbf{a}_y + (0-0)\mathbf{a}_z = 1\mathbf{a}_x + 3\mathbf{a}_y$.

$$|\mathbf{B}_{OQ}| = \sqrt{1^2 + 3^2} = \sqrt{10} = 3.16$$

$$\mathbf{a}_{OQ} = \frac{1}{\sqrt{10}}\mathbf{a}_x + \frac{3}{\sqrt{10}}\mathbf{a}_y = 0.32\mathbf{a}_x + 0.95\mathbf{a}_y$$

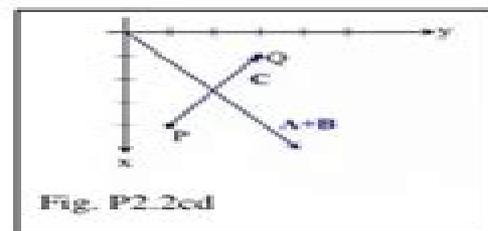
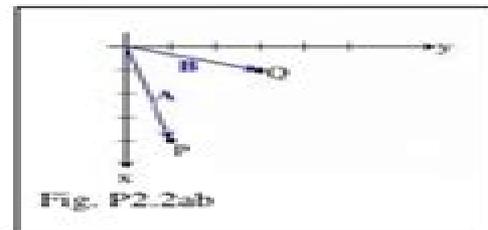
(see Figure P2.2ab)

c. $\mathbf{C}_{PQ} = (1-4)\mathbf{a}_x + (3-1)\mathbf{a}_y + (0-0)\mathbf{a}_z = -3\mathbf{a}_x + 2\mathbf{a}_y$.

$$|\mathbf{C}_{PQ}| = \sqrt{3^2 + 2^2} = \sqrt{13} = 3.61$$

$$\mathbf{a}_{PQ} = \frac{-3}{\sqrt{13}}\mathbf{a}_x + \frac{2}{\sqrt{13}}\mathbf{a}_y = -0.83\mathbf{a}_x + 0.55\mathbf{a}_y$$

(see Figure P2.2cd)



Fundamentals Of Engineering Electromagnetics Lecture Notes

**Félix Salazar Bloise, Rafael Medina
Ferro, Ana Bayón Rojo, Francisco
Gascón Latasa**

Fundamentals Of Engineering Electromagnetics Lecture Notes:

Introduction to Engineering Electromagnetic Fields Korada Umashankar,1989 This is a textbook designed to provide analytical background material in the area of Engineering Electromagnetic Fields for the senior level undergraduate and preparatory level graduate electrical engineering students It is also an excellent reference book for researchers in the field of computational electromagnetic fields The textbook covers Static Electric and Magnetic Fields The basic laws governing the Electrostatics Magnetostatics with engineering examples are presented which are enough to understand the fields and the electric current and charge sources Dynamic Electromagnetic Fields The Maxwell s equations in Time Domain and solutions the Maxwell s equations in Frequency Domain and solutions Extensive approaches are presented to solve partial differential equations satisfying electromagnetic boundary value problems Foundation to electromagnetic field radiation guided wave propagation is discussed to expose at the undergraduate level application of the Maxwell s equations to practical engineering problems

Electromagnetics for Engineering Students Part I Sameir M. Ali Hamed,2017-09-20 Electromagnetics for Engineering Students starts with an introduction to vector analysis and progressive chapters provide readers with information about dielectric materials electrostatic and magnetostatic fields as well as wave propagation in different situations Each chapter is supported by many illustrative examples and solved problems which serve to explain the principles of the topics and enhance the knowledge of students In addition to the coverage of classical topics in electromagnetics the book explains advanced concepts and topics such as the application of multi pole expansion for scalar and vector potentials an in depth treatment for the topic of the scalar potential including the boundary value problems in cylindrical and spherical coordinates systems metamaterials artificial magnetic conductors and the concept of negative refractive index Key features of this textbook include detailed and easy to follow presentation of mathematical analyses and problems a total of 681 problems 162 illustrative examples 88 solved problems and 431 end of chapter problems an appendix of mathematical formulae and functions Electromagnetics for Engineering Students is an ideal textbook for first and second year engineering students who are learning about electromagnetism and related mathematical theorems

[Handbook of Engineering Electromagnetics](#) Rajeev Bansal,2004-09-01 Engineers do not have the time to wade through rigorously theoretical books when trying to solve a problem Beginners lack the expertise required to understand highly specialized treatments of individual topics This is especially problematic for a field as broad as electromagnetics which propagates into many diverse engineering fields The time h

Solved Problems in Electromagnetics Félix Salazar Bloise,Rafael Medina Ferro,Ana Bayón Rojo,Francisco Gascón Latasa,2016-10-19 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

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Advanced Engineering Electromagnetics
Constantine A. Balanis, 2012-01-24 Balanis second edition of Advanced Engineering Electromagnetics a global best seller for over 20 years covers the advanced knowledge engineers involved in electromagnetic need to know particularly as the topic relates to the fast moving continually evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antenna microwave and wireless communication points to an increase in the number of engineers needed to specialize in this field In addition the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text Resources include Ready made lecture notes in Power Point format for all the chapters Forty nine MATLAB programs to compute plot and animate some of the wave phenomena Nearly 600 end of chapter problems that s an average of 40 problems per chapter 200 new problems 50% more than in the first edition A thoroughly updated Solutions Manual 2500 slides for Instructors are included

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Electromagnetics and Network Theory and their Microwave Technology Applications Stefan Lindenmeier, Robert Weigel, 2011-07-13 This volume provides a discussion of the challenges and perspectives of electromagnetics and network theory and their microwave applications in all aspects It collects the most interesting contribution of the symposium

dedicated to Professor Peter Russer held in October 2009 in Munich **Fundamentals of Engineering Electromagnetics**

David K. Cheng, 2014-03-20 Fundamental of Engineering Electromagnetics not only presents the fundamentals of electromagnetism in a concise and logical manner but also includes a variety of interesting and important applications While adapted from his popular and more extensive work Field and Wave Electromagnetics this text incorporates a number of innovative pedagogical features Each chapter begins with an overview which serves to offer qualitative guidance to the subject matter and motivate the student Review questions and worked examples throughout each chapter reinforce the student s understanding of the material Remarks boxes following the review questions and margin notes throughout the book serve as additional pedagogical aids Fundamentals of Engineering Electromagnetics Rajeev Bansal, 2018-10-08

Electromagnetics is too important in too many fields for knowledge to be gathered on the fly A deep understanding gained through structured presentation of concepts and practical problem solving is the best way to approach this important subject Fundamentals of Engineering Electromagnetics provides such an understanding distilling the most important theoretical aspects and applying this knowledge to the formulation and solution of real engineering problems Comprising chapters drawn from the critically acclaimed Handbook of Engineering Electromagnetics this book supplies a focused treatment that is ideal for specialists in areas such as medicine communications and remote sensing who have a need to understand and apply electromagnetic principles but who are unfamiliar with the field Here is what the critics have to say about the original work accompanied with practical engineering applications and useful illustrations as well as a good selection of references those chapters that are devoted to areas that I am less familiar with but currently have a need to address have certainly been valuable to me This book will therefore provide a useful resource for many engineers working in applied electromagnetics particularly those in the early stages of their careers Alastair R Ruddle The IEE Online a tour of practical electromagnetics written by industry experts provides an excellent tour of the practical side of electromagnetics a useful reference for a wide range of electromagnetics problems a very useful and well written compendium Alf Riddle IEEE Microwave Magazine Fundamentals of Engineering Electromagnetics lays the theoretical foundation for solving new and complex engineering problems involving electromagnetics *Fundamentals of Engineering Electromagnetics* Rajeev Bansal, 2018-10-08

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Introductory Electromagnetics Zoya B. Popović,Branko D. Popović,2000 Modern Introductory Electromagnetics relates physical principles to engineering practice with a number of application deriving mathematical tools from physical concepts when needed

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IEEE Proceedings of the Southeastcon ,1984

Electromagnetic Waves Umran S. Inan,Aziz S. Inan,2000 For courses in Electromagnetic Fields Waves Electromagnetic Waves continues the applied approach used in the authors successful Engineering Electromagnetics The second book is appropriate for a second course in Electromagnetics that covers the topic of waves and the application of Maxwell s equations to electromagnetic events

Scientific and Technical Books in Print ,1972

ASEE Prism ,1994

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