

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

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

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

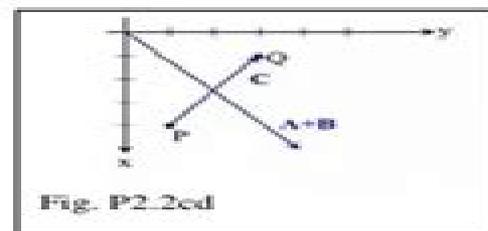
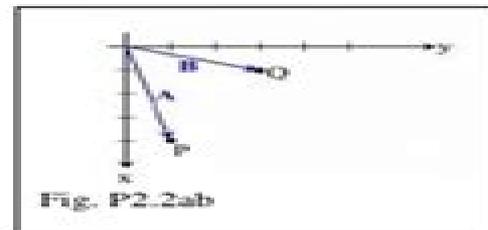
(see Figure P2.2ab)

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

**Padhraic Smyth**



## **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

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 [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 [Balanis' Advanced Engineering Electromagnetics](#) Constantine A. Balanis,2024-01-31 Balanis Advanced Engineering Electromagnetics The latest edition of the foundational guide to advanced electromagnetics Balanis third edition of Advanced Engineering Electromagnetics a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field Highlights of the 3rd Edition include A new chapter on Artificial Impedance Surfaces AIS contains material on current and advanced EM technologies including the exciting and fascinating topic of metasurfaces for Control and broadband RCS reduction using checkerboard designs Optimization of antenna fundamental parameters such as input impedance directivity realized gain amplitude radiation pattern Leaky wave antennas using 1 D and 2 D polarization diverse holographic high impedance metasurfaces for antenna radiation control and optimization Associated MATLAB programs for the design of checkerboard metasurfaces for RCS reduction and metasurface printed antennas and holographic L WA for radiation control and optimization Throughout the book there are Additional examples numerous end of chapter problems and PPT notes Fifty three MATLAB computer programs for computations graphical visualizations and animations Nearly 4 500 multicolor PowerPoint slides are available for self study or lecture use

**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

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David K. Cheng, 2014-03-20 *Fundamentals of Engineering Electromagnetics* not only presents the fundamentals of  
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