

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

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

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

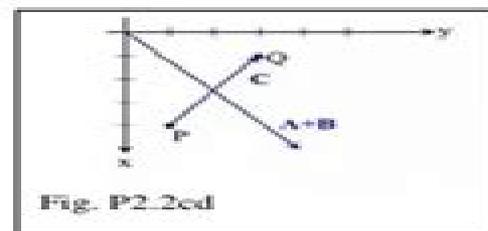
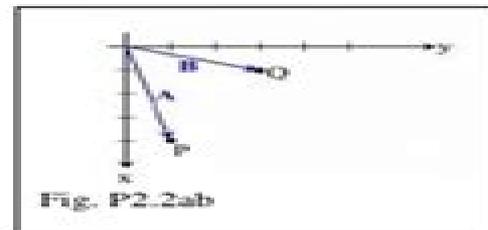
(see Figure P2.2ab)

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)



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**Jessica J Manson**



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**Teaching Electromagnetics: Innovative Approaches and Pedagogical Strategies** Krishnasamy T. Selvan, Karl F. Warnick, 2021-06-17. **Teaching Electromagnetics: Innovative Approaches and Pedagogical Strategies** is a guide for educators addressing course content and pedagogical methods primarily at the undergraduate level in electromagnetic theory and its applications. Topics include teaching methods, lab experiences, and hands-on learning, and course structures that help teachers respond effectively to trends in learning styles and evolving engineering curricula. The book grapples with issues related to the recent worldwide shift to remote teaching. Each chapter begins with a high-level consideration of the topic, reviews previous work and publications, and gives the reader a broad picture of the topic before delving into details. Chapters include specific guidance for those who want to implement the methods and assessment results and evaluation of the effectiveness of the methods. Respecting the limited time available to the average teacher to try new methods, the chapters focus on why an instructor should adopt the methods proposed in it. Topics include virtual laboratories, computer-assisted learning, and MATLAB tools. The authors also review flipped classrooms and online teaching methods that support remote teaching and learning. The end result should be an impact on the reader represented by improvements to his or her practical teaching methods and curricular approach to electromagnetics education. The book is intended for electrical engineering professors, students, lab instructors, and practicing engineers with an interest in teaching and learning. In summary, this book surveys methods and tools for teaching the foundations of wireless

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*Robust Electronic Design Reference Book: no special title* John R. Barnes,2004 If you design electronics for a living you need Robust Electronic Design Reference Book Written by a working engineer who has put over 115 electronic products into production at Sycor IBM and Lexmark Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that Work Are safe and reliable Can be manufactured tested repaired and serviced May be sold and used worldwide Can be adapted or enhanced to meet new and changing requirements

*Optical Fiber Communication Systems with MATLAB® and Simulink® Models* Le Nguyen Binh,2014-12-01 Carefully structured to instill practical knowledge of fundamental issues Optical Fiber Communication Systems with MATLAB and Simulink Models describes the modeling of optically amplified fiber communications systems using MATLAB and Simulink This lecture based book focuses on concepts and interpretation mathematical procedures and engineering

**Fundamentals of Solid-State Lighting** Vinod Kumar Khanna,2014-06-03 Compared to traditional electrical filaments arc lamps and fluorescent lamps solid state lighting offers higher efficiency reliability and environmentally friendly technology LED solid state lighting is poised to take over conventional lighting due to cost savings there is pretty much no debate about this In response to the recent activity

**Case Studies in Micromechatronics** Stephanus Büttgenbach,Iordania Constantinou,Andreas Dietzel,Monika Leester-Schädel,2020-05-15 The book Case Studies in Micromechatronics From Systems to Process offers prominent sample applications of micromechatronic systems and the enabling fabrication technologies The chosen examples represent five main fields of application consumer electronics pressure sensor mobility and navigation acceleration sensor handling technology and automation micro gripper laboratory diagnostics point of care system and biomedical technology smart skin These five sample systems are made from different materials requiring a large variety of modern fabrication methods and design rules which are explained in detail As a result an inverted introduction from prominent applications to base technologies is provided Examples of applications are selected to offer a broad overview of the development environment of micromechatronic systems including established as well as cutting edge microfabrication technologies

**Electronics Fundamentals** Thomas L. Floyd,2007 CD ROM contains Multisim circuits including Multisim 2001 Multisim 7 and Multisim 8 Companion web site available

**Microwave Journal** ,2006 [Fundamentals of Electromagnetics with Engineering](#)

Applications, 1E Book Alone Wiley E-Text Reg Card Wentworth,2014-01-23      *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      E-manufacturing K. Cheng,2005 This book begins by presenting the concepts of and an engineering oriented approach to e manufacturing Next the enabling technologies and implementation issues for e manufacturing including topics such as Java programming database integration client server architecture web based 3D modelling and simulations and open computing and interaction design are reviewed There is then an exploration of application perspectives through a number of application systems Designed for final year undergraduate elective courses on e manufacturing and introductory courses on e manufacturing at postgraduate level this book can also be used as a textbook for teaching e engineering in general It will also provide a useful reference for design and manufacturing engineers company managers e business e commerce developers and IT professionals and managers Book Jacket      *Vision* ,1995      Electromagnetic Simulation Techniques Based on the FDTD Method W. Yu,2009-09-15 Bridges the gap between FDTD theory and the implementation of practical simulation techniques This is the first publication that guides readers step by step through the implementation of electromagnetic simulation techniques based on FDTD methods These simulation techniques serve as an essential bridge between FDTD methods and their applications Moreover the book helps readers better understand the underlying logic of FDTD methods so that they can design FDTD projects using either commercial electromagnetic software packages or their own codes in order to solve practical engineering problems The book begins with two chapters that

introduce the basic concepts of the 3 D Cartesian FDTD method followed by discussions of advanced FDTD methods such as conformal techniques dispersive media circuit elements and near to far field transformation Next the book Presents basic concepts of parallel processing techniques and systems including parallel FDTD techniques and systems Explores simulation techniques based on FDTD methods Illustrates practical simulation techniques using engineering applications Introduces advanced simulation techniques Each chapter concludes with references to help readers investigate particular topics in greater depth Each chapter also includes problem sets that challenge readers to put their new FDTD and simulation skills into practice By bridging the gap between FDTD theory and practical simulation techniques this publication is an invaluable guide for students and engineers who need to solve a wide range of design problems in RF antenna and microwave engineering

Proceedings of the ASME Dynamic Systems and Control Division--2003 ,2003 Engineering Electromagnetics and Waves, Global Edition Aziz Inan,Ryan Said,Umrans, S. Inan,2015-07-31 For courses in Electromagnetic Fields Waves Engineering Electromagnetics and Waves provides engineering students with a solid grasp of electromagnetic fundamentals and electromagnetic waves by emphasising physical understanding and practical applications The topical organisation of the text starts with an initial exposure to transmission lines and transients on high speed distributed circuits naturally bridging electrical circuits and electromagnetics This book is designed for upper division college and university engineering students for those who wish to learn the subject through self study and for practicing engineers who need an up to date reference text The student using this text is assumed to have completed typical lower division courses in physics and mathematics as well as a first course on electrical engineering circuits Teaching and Learning Experience This program will provide a better teaching and learning experience for you and your students It provides Modern Chapter Organization Emphasis on Physical Understanding Detailed Examples Selected Application Examples and Abundant Illustrations Numerous End of chapter Problems Emphasizing Selected Practical Applications Historical Notes on the Great Scientific Pioneers Emphasis on Clarity without Sacrificing Rigor and Completeness Hundreds of Footnotes Providing Physical Insight Leads for Further Reading and Discussion of Subtle and Interesting Concepts and Applications The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed

Fundamentals of Electromagnetics for Electrical and Computer Engineering Nannapaneni Narayana Rao,2009 Fundamentals of Electromagnetics for Electrical and Computer Engineering First Edition is appropriate for all beginning courses in electromagnetics in both electrical engineering and computer engineering programs This is ideal for anyone interested in learning more about electromagnetics Dr N Narayana Rao has

designed this compact one semester textbook in electromagnetics to fully reflect the evolution of technologies in both electrical and computer engineering This book s unique approach begins with Maxwell s equations for time varying fields first in integral and then in differential form and also introduces waves at the outset Building on these core concepts Dr Rao treats each category of fields as solutions to Maxwell s equations highlighting the frequency behavior of physical structures Next he systematically introduces the topics of transmission lines waveguides and antennas To keep the subject s geometry as simple as possible while ensuring that students master the physical concepts and mathematical tools they will need Rao makes extensive use of the Cartesian coordinate system Topics covered in this book include uniform plane wave propagation material media and their interaction with uniform plane wave fields essentials of transmission line analysis both frequency and time domain metallic waveguides and Hertzian dipole field solutions Material on cylindrical and spherical coordinate systems is presented in appendices where it can be studied whenever relevant or convenient Worked examples are presented throughout to illuminate and in some cases extend key concepts each chapter also contains a summary and review questions Note this book provides a one semester alternative to Dr Rao s classic textbook for two semester courses Elements of Engineering Electromagnetics now in its Sixth Edition **Fundamentals of Engineering Electromagnetics** David K. Cheng, David Keun Cheng, 1993 The purpose of this book is to meet the demand for a textbook that not only presents the fundamentals of electromagnetism in a concise and logical manner but also includes a variety of engineering applications

*Choice* ,1999

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