

Chapter 3 Problem Solutions

Problem 3.1

- (a) Equation of the plane:

$$r^2 \mathbf{L} = r^2 \mathbf{L}_1 + r^2 \mathbf{L}_2 + r^2 \mathbf{L}_3 = \text{length}(r_1) \cdot \text{direction}(r_1) + r_2 \mathbf{L}_2 + r_3 \text{length}(r_3) \cdot \text{direction}(r_3)$$
 Equation of the plane:

$$r^2 \mathbf{L} = r_1 \text{length} \left(\frac{r_1}{r_1} \right) + r_2 \cdot r_2 \cdot \text{direction}(r_2) + \text{length}(r_3) \cdot r_3 \cdot \text{direction}(r_3)$$

$$r^2 \mathbf{L} = r_1 \cdot \text{direction}(r_1) + r_2 \cdot r_2 \cdot \text{direction}(r_2) + r_3 \cdot r_3 \cdot \text{direction}(r_3)$$

- (b) The magnitude is given by:

$$r = \frac{r_1^2 + r_2^2 + r_3^2}{r_1^2 + r_2^2 + r_3^2} = 1 \text{ unitless}$$

The direction of the plane looks like that:

$$r^2 \mathbf{L} = \text{length} \left(\frac{r_1}{r_1} \right) + \text{length} \left(\frac{r_2 \cdot r_2}{r_2 \cdot r_2} \right) + r_3 \cdot r_3 \cdot \text{direction}(r_3)$$

The magnitude of the direction is given by the vector equation:

$$r^2 \mathbf{L} = r^2 \mathbf{L}_1 + r^2 \mathbf{L}_2 + r^2 \mathbf{L}_3 = r_1 \mathbf{L}_1 + r_2 \mathbf{L}_2 + r_3 \mathbf{L}_3$$

$$r = \text{length} \left(\frac{r_1}{r_1} \right) + r_2 \cdot r_2 + r_3 \cdot r_3$$

$$r = 1 \text{ unitless}$$

- (c) Equation of the plane:

$$r^2 \mathbf{L} = r_1 \mathbf{L}_1 + r_2 \mathbf{L}_2 + r_3 \mathbf{L}_3$$

The magnitude of the direction is:

$$\frac{r_1^2}{r_1^2} + \frac{r_2^2 + r_3^2}{r_2^2 + r_3^2} = 1 \text{ unitless}$$

Then, $\text{length}(r^2 \mathbf{L}) = 1 \text{ unitless}$. Therefore, the magnitude of the direction is 1 unitless.

Problem 3.2

From the geometry of Figure 3.2(a):

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CWTS: Certified Wireless Technology Specialist Official Study Guide Robert J. Bartz, 2010-01-22 About the Book This Official Study Guide for the CWTS exam features complete coverage of the exam objectives as well as hands on exercises Real World Scenarios chapter review questions a detailed glossary objective map and a pre assessment test The enhanced CD includes two bonus exams 150 flashcards Case Studies and demo software Exam coverage includes Wi Fi Technology Standards and Certifications Hardware and Software Radio Frequency RF Fundamentals Site Surveying and Installation Applications Support and Troubleshooting Security Compliance About the CWTS Certification The Certified Wireless Technology Specialist CWTS is a vendor neutral certification administered by CWNP This brand new certification is the only entry level vendor neutral wireless certification for IT Professionals and was developed for IT support staff who work with wireless technologies It is a springboard to the foundation level Certified Wireless Network Administrator CWNA and more advanced Certified Wireless Security Professional CWSP and Certified Wireless Network Expert CWNE certifications The exam is offered in over 100 countries through both Prometric and Pearson VUE testing centers The cost of the exam is 125 Note CD ROM materials for eBook purchases can be downloaded from CWNP s website at www.cwnp.com/sybex RF and Microwave Wireless Systems Kai Chang, 2004-03-22 A comprehensive introduction to the hardware parameters and architectures of RF microwave wireless systems As the basis for some of the hottest technologies of the new millennium radio frequency RF and microwave wireless systems rapidly propel us toward a future in which the transmission of voice video and data communications will be possible anywhere in the world through the use of simple handheld devices This book provides scientists and engineers with clear thorough up to date explanations of all aspects of RF and microwave wireless systems including general hardware components system parameters and architectures Renowned authority Kai Chang covers both communication and radar sensor systems and extends the discussion to other intriguing topics from global positioning systems GPS to smart highways and smart automobiles With an emphasis on basic operating principles Dr Chang reviews waves and transmission lines examines modulation and demodulation and multiple access techniques and helps bridge the gap between RF microwave engineering and communication system design Ample practical examples of components and system configurations and nearly 300 illustrations and photographs complete this timely and indispensable resource

Introduction to MIMO Communications Jerry R. Hampton, 2014 This accessible guide contains everything you need to get up to speed on the theory and implementation of MIMO techniques Introduction to Digital Communications Ali Grami, 2025-06-20 Introduction to Digital Communications Second Edition is written for upper level undergraduate courses who need to understand the basic principles in the analysis and design of digital communication systems including design objectives constraints and trade offs After portraying the big picture and laying the background material the book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications

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Antennas for Industrial and Medical Applications with Optimization Techniques for Wireless Communication

S. Kannadhasan,R. Nagarajan,2024-12-30 The text begins by covering the fundamental concepts and new advances in the field of antenna theory antenna hardware and propagation It further explains the designing of metamaterials microstrip patch antennas for medical applications photonic crystals of millimeter wave signals for 5G communications dual band miniaturized circular antennas for wireless networks and ultra thin compact flexible antennas for wearable applications This book Presents the design and development of S shaped and T shaped microstrip path antennas for industrial applications Highlights the use of W shaped and metamaterials microstrip patch antennas for medical applications Covers photonic crystals of millimeter wave signals for 5G communications Showcases the importance of compact and wideband slot antenna for wireless communications Illustrates the design of an ultra thin compact flexible antenna for wearable applications It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering antenna design and microwave engineering

Wireless Horizon Dan Steinbock,2003 Steinbock a senior advisor for the Institute for Mobile Market Research provides a global overview of successful strategies policies and innovations in the most developed i e globalized wireless technologies markets since the 1980s After identifying globalization drivers and technology innovators he analyzes recent industry evolution He discusses the strategies of the leading equipment manufacturers as well as enablers and service providers Annotation copyrighted by Book News Inc Portland OR

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Intelligent Computing and Optimization Pandian Vasant, Mohammad Shamsul Arefin, Vladimir Panchenko, J. Joshua Thomas, Elias Munapo, Gerhard-Wilhelm Weber, Roman Rodriguez-Aguilar, 2023-11-10 This book of Springer Nature is another proof of Springer's outstanding greatness on the lively interface of Holistic Computational Optimization Green IoTs Smart Modeling and Deep Learning It is a masterpiece of what our community of academics and experts can provide when an interconnected approach of joint mutual and meta learning is supported by advanced operational research and experience of the World Leader Springer Nature The 6th edition of International Conference on Intelligent Computing and Optimization took place at G Hua Hin Resort Mall on April 27-28 2023 with tremendous support from the global research scholars across the planet Objective is to celebrate Research Novelty with Compassion and Wisdom with researchers scholars experts and investigators in Intelligent Computing and Optimization across the globe to share knowledge experience and innovation a marvelous opportunity for discourse and mutuality by novel research invention and creativity This proceedings book of the 6th ICO 2023 is published by Springer Nature Quality Label of Enlightenment

Human Centred Intelligent Systems Alfred Zimmermann, Robert J. Howlett, Lakhmi C. Jain, Rainer Schmidt, 2021-05-28 This book highlights new trends and challenges in intelligent systems which play an essential part in the digital transformation of many areas of science and practice It includes papers offering a deeper understanding of the human centred perspective on artificial intelligence of intelligent value co creation ethics value oriented digital models transparency and intelligent digital architectures and engineering to support digital services and intelligent systems the transformation of structures in digital business and intelligent systems based on human practices as well as the study of interaction and co adaptation of humans and systems All papers were originally presented at the International KES Conference on Human Centred Intelligent Systems 2021 KES HCIS 2021 held on June 14-16 2021 in the KES Virtual Conference Centre

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