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7 Chapter 8 Chapter 9

Chapter 10 Chapter 11

Chapter 12 Chapter 13

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$$(b) \quad | \mathbf{PQ} | = \sqrt{9^2 + 25^2 + 25^2} = 7.6811$$

2 Prob. 1.13 1.17 Given  $\mathbf{r}_P = (-1, 4, 8)$ ,  $\mathbf{r}_Q = (2, -1, 3)$ ,  $\mathbf{r}_R = (-1, 2, 3)$

$$(a) \quad | \mathbf{PQ} | = \sqrt{9^2 + 25^2 + 25^2} = 7.6811 \quad (b) \quad \mathbf{PR} = -2\mathbf{a}_y - 5\mathbf{a}_z$$

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Therefore, do not need to review any more mathematics than their level of proficiency requires. Sadiku is well-known for his excellent pedagogy, and this edition refines his approach even further. Student-oriented pedagogy comprises: chapter introductions showing how the forthcoming material relates to the previous chapter, summaries, boxed formulas, and multiple choice review questions with answers allowing students to gauge their comprehension. Many new problems have been added throughout the text.

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as well as a new chapter on "Modern Topics" covering microwaves, electromagnetic interference and compatability, and optical fibers. This book is appropriate for sophomore/junior level students in electrical engineering. It will also be accompanied by a Solutions Manual, available free to adopters of the main text.

Elements of Electromagnetics is designed for a first course in Electromagnetics for students towards an electrical engineering degree. This core course is usually required of all ECE majors. A split occurs in

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the market between professors who present vectors first and professors who present transmission lines first, Sadiku's text takes the vectors-first approach. The 5th edition is primarily focused on adding new and revised homework problems, particularly problems that focus on real-world practical examples. MATLAB exercises have been incorporated into each chapter for extended practice. The intensive review and accuracy checking process conducted in the 4th edition will be highlighted in the preface.

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its smooth and logical flow of ideas, and its clear presentation, 'Field and Wave Electromagnetics' has become an established textbook in the field of electromagnetics. This book builds the electromagnetic model using an axiomatic approach in steps: first for static electric fields, then for static magnetic fields, and finally for time-varying fields leading to Maxwell's equations.

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