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Solution: According to Eq. (2.2), $R = r \frac{l}{A}$: From Table 2-1, the resistivity of carbon is $r = 1.4 \times 10^{-5} \text{ W}\cdot\text{m}$; and the cross-sectional area of the wire is $A = \pi d^2 / 4 = \pi (0.5 \times 10^{-3})^2 / 4 = 7.85 \times 10^{-7} \text{ m}^2$: Hence, $R = \frac{1.4 \times 10^{-5} \times 10}{7.85 \times 10^{-7}} = 1.78 \text{ W}$; and from $P = I^2 R = 2 \text{ W}$; $I = \sqrt{\frac{P}{R}} = \sqrt{\frac{2}{1.78}} = 1.06 \text{ A}$: Fawwaz T. Ulaby, Michel M. Maharbiz and Cynthia M. Furse Circuits c 2015 National Technology Press

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Solution: (a) $100e^{az} = 10 \times 100e^{0.5z} = 10 \times e^{0.5z} = 10 \times \ln 0.1 = 2.3 \times z = 4.6 \text{ m}$: (b) $100e^{0.5z} = 1 \times z = \ln 0.01 = 0.5 = 9.2 \text{ m}$: (c) $100e^{0.5z} = 106$. $z = \ln 106 = 0.5 = 37 \text{ m}$: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall. Exercise 1.7 Express the following complex functions in polar form: z.

Fundamentals of Applied Electromagnetics

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As the availability of powerful computer resources has grown over the last three decades, the art of computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM community lacked a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers, and students. The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. The author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers how to pose, numerically analyze, and solve EM problems, give them the ability to expand their problem-solving skills using a variety of methods, and prepare them for research in electromagnetism. Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most

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useful computation methods for EM problems.

Fundamentals of Electric Circuits, 2e is intended for use in the introductory circuit analysis or circuit theory course taught in electrical engineering or electrical engineering technology departments. The main objective of this book is to present circuit analysis in a clear, easy-to-understand manner, with many practical applications to interest the student. Each chapter opens with either historical sketches or career information on a subdiscipline of electrical engineering. This is followed by an introduction that includes chapter objectives. Each chapter closes with a summary of the key points and formulas. The authors present principles in an appealing and lucid step-by-step manner, carefully explaining each step. Important formulas are highlighted to help students sort out what is essential and what is not. Many pedagogical aids reinforce the concepts learned in the text so that students get comfortable with the various methods of analysis presented in the text.

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"This is a signals and systems textbook with a difference: Engineering applications of signals and systems are integrated into the presentation as equal partners with concepts and mathematical models, instead of just presenting the concepts and models and leaving the student to wonder how it all relates to engineering."--Preface.

New edition of a text intended primarily for the undergraduate courses on the subject which are frequently found in electrical engineering curricula--but the concepts and techniques it covers are also of fundamental importance in other engineering disciplines. The book is structured to develop in parallel the methods of analysis for continuous-time and discrete-time signals and systems, thus allowing exploration of their similarities and differences. Discussion of applications is emphasized, and numerous worked examples are included.

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For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

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This reference, written by leading authorities in the field, gives basic theory, implementation details, advanced research, and applications of RF and microwave in healthcare and biosensing. It first provides a solid understanding of the fundamentals with coverage of the basics of microwave engineering and the interaction between electromagnetic waves and biomaterials. It then presents the state-of-the-art development in microwave biosensing, implantable devices -including applications of microwave technology for sensing biological tissues – and medical diagnosis, along with applications involving remote patient monitoring. this book is an ideal reference for RF and microwave engineer working on, or thinking of working on, the applications of RF and Microwave technology in medicine and biology. Learn: The fundamentals of RF and microwave engineering in healthcare and biosensing How to combine biological and medical aspects of the field with underlying engineering concepts How to implement microwave biosensing for material characterization and cancer diagnosis Applications and functioning of wireless implantable biomedical devices and microwave non-contact biomedical radars How to combine devices, systems, and methods for new practical applications The first book to review the fundamentals, latest developments, and future trends in this important emerging field with emphasis on engineering aspects of sensing, monitoring, and diagnosis using RF and Microwave Extensive coverage of biosensing applications are included Written by leaders in the field, including members of the Technical Coordinating Committee of the Biological Effects and Medical Applications of the IEEE Microwave Theory and Techniques Society

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