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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  $A = \frac{\pi d^2}{4} = \frac{\pi (0.5 \times 10^{-3})^2}{4} = 7.85 \times 10^{-7} \text{ m}^2$ : 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)  $100e^{az} = 10$   $100e^{0.5z} = 10$   $e^{0.5z} = 0.1$   $0.5z = \ln 0.1$   $z = \frac{\ln 0.1}{0.5} = -2.3$   $z = 4.6 \text{ m}$ : (b)  $100e^{0.5z} = 1$   $z = \frac{\ln 0.01}{0.5} = -9.2 \text{ m}$ : (c)  $100e^{0.5z} = 106$ .  $z = \frac{\ln 106}{0.5} = 37 \text{ m}$ : 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:  $z$ .

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The 2nd Edition of Analog Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include topics on frequency response of analog ICs and basic theory of feedback amplifiers.

Alexander and Sadiku's third edition of Fundamentals of Electric Circuits continues in the spirit of its successful previous editions, with the objective of presenting circuit analysis in a manner that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and homework problems throughout the text and online using the KCIDE software. A balance of theory, worked examples and extended examples, practice problems, and real-world applications, combined with over 300 new homework problems for the third edition and robust media offerings, renders the third edition the most comprehensive and student-friendly approach to linear circuit analysis.

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