

# Principles of Communications 7th Edition Solution Manua

## Problem A.1

All parts of the problem are solved using the relation

$$V_{\text{rms}} = \sqrt{4kTRB}$$

where

$$\begin{aligned} k &= 1.38 \times 10^{-23} \text{ J/K} \\ B &= 30 \text{ MHz} = 3 \times 10^7 \text{ Hz} \end{aligned}$$

- a. For  $R = 10,000$  ohms and  $T = T_0 = 290$  K

$$\begin{aligned} V_{\text{rms}} &= \sqrt{4(1.38 \times 10^{-23})(290)(10^4)(3 \times 10^7)} \\ &= 6.93 \times 10^{-5} \text{ V rms} \\ &= 69.3 \text{ } \mu\text{V rms} \end{aligned}$$

- b.  $V_{\text{rms}}$  is smaller than the result in part (a) by a factor of  $\sqrt{10} = 3.16$ . Thus

$$V_{\text{rms}} = 21.9 \text{ } \mu\text{V rms}$$

- c.  $V_{\text{rms}}$  is smaller than the result in part (a) by a factor of  $\sqrt{100} = 10$ . Thus

$$V_{\text{rms}} = 6.93 \text{ } \mu\text{V rms}$$

- d. Each answer becomes smaller by factors of 2,  $\sqrt{10} = 3.16$ , and 10, respectively.

## Problem A.2

Use

$$I = I_s \exp \frac{eV}{kT} - 1$$

We want  $I > 20I_s$  or  $\exp \frac{eV}{kT} - 1 > 20$ .

- a. At  $T = 290$  K,  $\frac{e}{kT} = \frac{1.6 \times 10^{-19}}{1.38 \times 10^{-23} \times 290} \approx 40$ , so we have  $\exp(40V) > 21$  giving

$$V > \frac{\ln(21)}{40} = 0.0761 \text{ volts}$$

$$I_{\text{rms}}^2 = 2eIB + 2eBI_s \exp \frac{eV}{kT}$$

$$\text{or } \frac{I_{\text{rms}}^2}{B} = 2eI_s \exp \frac{eV}{kT}$$

$$\begin{aligned} &= 2(1.6 \times 10^{-19})(1.5 \times 10^{-5}) \exp(40 \times 0.0761) \\ &= 1.0075 \times 10^{-22} \text{ A}^2/\text{Hz} \end{aligned}$$

- b. If  $T = 90$  K, then  $\frac{e}{kT} = 129$ , and for  $I > 20I_s$ , we need  $\exp(129V) > 21$  or

$$V > \frac{\ln(21)}{129} = 2.36 \times 10^{-2} \text{ volts}$$

# Couch 7th Edition Solution Manual Communication

**Marcel A. Müller**



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### **Table of Contents Couch 7th Edition Solution Manual Communication**

1. Understanding the eBook Couch 7th Edition Solution Manual Communication
  - The Rise of Digital Reading Couch 7th Edition Solution Manual Communication
  - Advantages of eBooks Over Traditional Books
2. Identifying Couch 7th Edition Solution Manual Communication
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Couch 7th Edition Solution Manual Communication
  - User-Friendly Interface
4. Exploring eBook Recommendations from Couch 7th Edition Solution Manual Communication
  - Personalized Recommendations

- Couch 7th Edition Solution Manual Communication User Reviews and Ratings
- Couch 7th Edition Solution Manual Communication and Bestseller Lists
- 5. Accessing Couch 7th Edition Solution Manual Communication Free and Paid eBooks
  - Couch 7th Edition Solution Manual Communication Public Domain eBooks
  - Couch 7th Edition Solution Manual Communication eBook Subscription Services
  - Couch 7th Edition Solution Manual Communication Budget-Friendly Options
- 6. Navigating Couch 7th Edition Solution Manual Communication eBook Formats
  - ePub, PDF, MOBI, and More
  - Couch 7th Edition Solution Manual Communication Compatibility with Devices
  - Couch 7th Edition Solution Manual Communication Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Couch 7th Edition Solution Manual Communication
  - Highlighting and Note-Taking Couch 7th Edition Solution Manual Communication
  - Interactive Elements Couch 7th Edition Solution Manual Communication
- 8. Staying Engaged with Couch 7th Edition Solution Manual Communication
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Couch 7th Edition Solution Manual Communication
- 9. Balancing eBooks and Physical Books Couch 7th Edition Solution Manual Communication
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Couch 7th Edition Solution Manual Communication
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Couch 7th Edition Solution Manual Communication
  - Setting Reading Goals Couch 7th Edition Solution Manual Communication
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Couch 7th Edition Solution Manual Communication
  - Fact-Checking eBook Content of Couch 7th Edition Solution Manual Communication

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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