

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_{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_{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

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

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

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

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

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

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

Data Computer Communications 7th Edition Solution Manual

Jessica J Manson



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Data Computer Communications 7th Edition Solution Manual Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Data Computer Communications 7th Edition Solution Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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