

# Principles of Communications 7th Edition Solution Manual

## 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

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

# Principles Of Mobile Communications Solution Manual Pdf

**Jerry D. Gibson**



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**Multi-Objective Optimization System Designs and Their Applications** Bor-Sen Chen, 2023-12-05 This book introduces multi objective design methods to solve multi objective optimization problems MOPs of linear nonlinear dynamic systems under intrinsic random fluctuation and external disturbance The MOPs of multiple targets for systems are all transformed into equivalent linear matrix inequality LMI constrained MOPs Corresponding reverse order LMI constrained multi objective evolution algorithms are introduced to solve LMI constrained MOPs using MATLAB All proposed design methods are based on rigorous theoretical results and their applications are focused on more practical engineering design examples Features Discusses multi objective optimization from an engineer s perspective Contains the theoretical design methods of multi objective optimization schemes Includes a wide spectrum of recent research topics in control design especially for stochastic

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mobile communications stresses the fundamentals of wireless and mobile communications engineering important for the design of any wireless system The book differs from others in the field by stressing mathematical modelling and analysis

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