

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

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

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

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

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

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

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

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Mobile Satellite Communications Madhavendra Richharia, 2014-02-27 Demand for Mobile Satellite Service MSS is on the increase with a huge surge of interest in mobile communications in recent years and high paced advancements in the supporting system architectures devices and applications This thoroughly revised and updated book provides a comprehensive guide to the MSS technologies and emerging trends It takes a system level approach giving in depth treatment of technical and business related issues The author a leading professional in the area draws on his extensive experience in industry and research to provide the reader with a sound and informed understanding of the technology Mobile Satellite Communications includes introductory material for the reader new to the field in addition to exploring prevalent system concepts architecture practices and trends for the more experienced An in depth review of scientific principles merged with business models and regulatory considerations presents a balanced perspective of commercial mobile satellite systems This book will be of interest to practicing engineers in mobile satellite communications and mobile broadcasting research and development professionals working in these areas mobile satellite service providers and operators Academics and students studying satellite systems technology specialists in other classes of satellite systems technical and marketing managers strategists and planners of telecommunication systems individuals interested in mobile communications satellite and telecommunications broadcasting technology will also find this book insightful Key Features Comprehensive treatment of mobile satellite communications topics including radio link aspects satellite constellations architectural and operational aspects as well as business planning models MSS radio interface standards spectrum forecast methodologies and system examples Addresses related themes such as mobile broadcasting mobile VSATs search and rescue and navigation systems Introduces emerging technologies such as mobile broadband television broadcasting to handheld units advanced capacity enhancement techniques hybrid system architecture concepts including a rich sample of research topics such as multiple input multiple output satellite based ad hoc networks and highlights initiatives in the use of Q V frequency bands Includes revision questions at the end of each chapter An accompanying website for interaction www.satellitesandyou.com

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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