

Chapter 1

Exercise Solutions

EX1.1

$$n_i = BT^{3/2} \exp\left(\frac{-E_g}{2kT}\right)$$

$$\text{GaAs: } n_i = (2.1 \times 10^{19})(300)^{3/2} \exp\left(\frac{-1.4}{2(86 \times 10^{-6})(300)}\right) \text{ or } n_i = 1.8 \times 10^7 \text{ cm}^{-3}$$

$$\text{Ge: } n_i = (0.66 \times 10^{19})(300)^{3/2} \exp\left(\frac{-0.66}{2(86 \times 10^{-6})(300)}\right) \text{ or } n_i = 2.40 \times 10^{13} \text{ cm}^{-3}$$

EX1.2

$$\text{(a) (i) } n_p = N_A = 2 \times 10^{24} \text{ cm}^{-3}$$

$$p_p = \frac{n_i^2}{n_p} = \frac{(0.5 \times 10^{10})^2}{2 \times 10^{24}} = 1.25 \times 10^4 \text{ cm}^{-3}$$

$$\text{(ii) } p_p = N_A = 10^{21} \text{ cm}^{-3}$$

$$n_p = \frac{n_i^2}{p_p} = \frac{(0.5 \times 10^{10})^2}{10^{21}} = 2.25 \times 10^7 \text{ cm}^{-3}$$

$$\text{(b) (i) } n_p = N_A = 2 \times 10^{24} \text{ cm}^{-3}$$

$$p_p = \frac{n_i^2}{n_p} = \frac{(0.8 \times 10^4)^2}{2 \times 10^{24}} = 1.62 \times 10^{-14} \text{ cm}^{-3}$$

$$\text{(ii) } p_p = N_A = 10^{21} \text{ cm}^{-3}$$

$$n_p = \frac{n_i^2}{p_p} = \frac{(0.8 \times 10^4)^2}{10^{21}} = 3.24 \times 10^{-13} \text{ cm}^{-3}$$

EX1.3

(a) For n-type,

$$\rho = \frac{1}{e\mu_n N_D} = \frac{1}{(0.6 \times 10^{-18})(6800)(2 \times 10^{23})} = 0.046 \text{ ohm-cm}$$

$$\text{(b) } J = \frac{1}{\rho} E \Rightarrow E = \rho J = (0.046)(175) = 8.04 \text{ V/cm}$$

EX1.4

Diffusion current density due to holes:

$$\begin{aligned} J_p &= -eD_p \frac{dp}{dx} \\ &= -eD_p (10^{20}) \left(\frac{-1}{L_p}\right) \exp\left(\frac{-x}{L_p}\right) \end{aligned}$$

Microelectronics Circuit Analysis And Design 4th Edition Solution

JE Gale



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Fundamentals of Electronics Erkan Yuce, Shahram Minaei, 2025-11-17 This book enables readers to become familiar with the concept of basic electronic circuits. First basic electrical circuit elements including resistors, capacitors, and inductors are introduced. Additionally, examples of independent and dependent current and voltage sources are provided. Various examples illustrate solid state electronics. Ideal and practical diode circuits are discussed with multiple examples. DC and AC analyses of amplifiers based on bipolar junction transistors (BJTs) and metal oxide semiconductor field effect transistors (MOSFETs) are also covered. This book provides readers with a solid foundation in basic electronics concepts and offers over 140 detailed examples to reinforce understanding. The clear, straightforward language makes complex topics easier to grasp, and the inclusion of numerous problem-solving exercises helps students and researchers develop practical skills they can apply in real scenarios. Introduces readers to key fundamentals of circuit analysis and amplifier design. Uses over 140 examples to explain concepts being introduced. Uses simple language to make the content accessible by readers with varying backgrounds.

Millimeter-Wave Power Amplifiers Jaco du Preez, Saurabh Sinha, 2017-10-05 This book provides a detailed review of millimeter wave power amplifiers, discussing design issues and performance limitations commonly encountered in light of the latest research. Power amplifiers, which are able to provide high levels of output power and linearity while being easily integrated with surrounding circuitry, are a crucial component in wireless microwave systems. The book is divided into three parts: the first introduces readers to mm-wave wireless systems and power amplifiers; in turn, the second focuses on design principles and EDA concepts, while the third discusses future trends in power amplifier research. The book provides essential information on mm-wave power amplifier theory, as well as the implementation options and technologies involved in their effective design, equipping researchers, circuit designers, and practicing engineers to design, model, analyze, test, and implement high-performance, spectrally clean, and energy-efficient mm-wave systems.

Scientific and Technical Books in Print, 1972 **The Cumulative Book Index**, 1994 A world list of books in the English language

Hardware Security Swarup Bhunia, Mark M. Tehranipoor, 2018-10-30 Hardware Security: A Hands-On Learning Approach provides a broad, comprehensive, and practical overview of hardware security that encompasses all levels of the electronic hardware infrastructure. It covers basic concepts like advanced attack techniques and countermeasures that are illustrated through theory, case studies, and well-designed hands-on laboratory exercises for each key concept. The book is ideal as a textbook for upper-level undergraduate students studying computer engineering, computer science, electrical engineering, and biomedical engineering, but is also a handy reference for graduate students, researchers, and industry professionals. For academic courses, the book contains a robust suite of teaching ancillaries. Users will be able to access schematic layout and design files for a printed circuit board for hardware hacking, i.e., the HaHa board that can be used by instructors to fabricate boards, a suite of videos that demonstrate different hardware vulnerabilities, hardware attacks, and

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