

# Chapter 1

## Exercise Solutions

E1.1

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

GaAs:

$$n_i = (2.1 \times 10^{14})(300)^{3/2} \exp\left(\frac{-1.4}{2(86 \times 10^{-6})(300)}\right)$$

$$\underline{n_i = 1.8 \times 10^8 \text{ cm}^{-3}}$$

Ge:

$$n_i = (1.66 \times 10^{23})(300)^{3/2} \exp\left(\frac{-0.66}{2(86 \times 10^{-6})(300)}\right)$$

$$\underline{n_i = 2.40 \times 10^{13} \text{ cm}^{-3}}$$

E1.2

Si:

$$n_i = (5.23 \times 10^{13})(400)^{3/2} \exp\left(\frac{-1.1}{2(86 \times 10^{-6})(400)}\right)$$

$$\underline{n_i = 4.76 \times 10^{12} \text{ cm}^{-3}}$$

GaAs:

$$n_i = (2.1 \times 10^{14})(400)^{3/2} \exp\left(\frac{-1.4}{2(86 \times 10^{-6})(400)}\right)$$

$$\underline{n_i = 2.44 \times 10^9 \text{ cm}^{-3}}$$

Ge:

$$n_i = (1.66 \times 10^{23})(400)^{3/2} \exp\left(\frac{-0.66}{2(86 \times 10^{-6})(400)}\right)$$

$$\underline{n_i = 9.06 \times 10^{14} \text{ cm}^{-3}}$$

E1.3

- a. majority carrier:  $p_0 = 10^{17} \text{ cm}^{-3}$   
 minority carrier:

$$\underline{n_0 = \frac{n_i^2}{N_A} = \frac{(1.5 \times 10^{10})^2}{10^{17}} = 2.25 \times 10^3 \text{ cm}^{-3}}$$

- b.  $n_0 = N_D - N_A = 5 \times 10^{15}$

majority carrier:  $n_0 = 5 \times 10^{15} \text{ cm}^{-3}$ 

minority carrier:

$$\underline{p_0 = \frac{n_i^2}{n_0} = \frac{(1.5 \times 10^{10})^2}{5 \times 10^{15}} = 4.5 \times 10^4 \text{ cm}^{-3}}$$

E1.4

- (a)  $n_0 = 5 \times 10^{16} \text{ cm}^{-3}$ ,  $p_0 \ll n_0$

$$\sigma \approx e\mu_n n_0 = (1.6 \times 10^{-19})(1350)(5 \times 10^{16}) \Rightarrow$$

$$\underline{\sigma = 10.8 (\Omega \cdot \text{cm})^{-1}}$$

- (b)  $p_0 = 5 \times 10^{16} \text{ cm}^{-3}$ ,  $n_0 \ll p_0$

$$\sigma \approx e\mu_p p_0 = (1.6 \times 10^{-19})(480)(5 \times 10^{16}) \Rightarrow$$

$$\underline{\sigma = 3.84 (\Omega \cdot \text{cm})^{-1}}$$

E1.5

- a.  $n_0 = N_D = 8 \times 10^{15} \text{ cm}^{-3}$

$$p_0 = \frac{n_i^2}{n_0} = \frac{(1.5 \times 10^{10})^2}{8 \times 10^{15}} \Rightarrow$$

$$\underline{p_0 = 2.81 \times 10^4 \text{ cm}^{-3}}$$

- b.  $n = n_0 + \delta n = 8 \times 10^{15} + 0.1 \times 10^{15} \Rightarrow$

$$\underline{n = 8.1 \times 10^{15} \text{ cm}^{-3}}$$

$$p = p_0 + \delta p \Rightarrow$$

$$\underline{p \approx 10^{14} \text{ cm}^{-3}}$$

E1.6

$$J = \sigma E = (10)(15) \Rightarrow$$

$$\underline{J = 150 \text{ A/cm}^2}$$

E1.7

$$\text{a. } V_{bi} = V_T \ln\left(\frac{N_A N_D}{n_i^2}\right)$$

$$V_{bi} = (0.026) \ln\left[\frac{(10^{15})(10^{17})}{(1.5 \times 10^{10})^2}\right]$$

$$\underline{V_{bi} = 0.897 \text{ V}}$$

$$\text{b. } V_{bi} = (0.026) \ln\left[\frac{(10^{17})(10^{17})}{(1.5 \times 10^{10})^2}\right]$$

$$\underline{V_{bi} = 0.817 \text{ V}}$$

# Ac Circuit Analysis Solution Manual

**Louis Nashelsky, Robert L. Boylestad**



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**Electrical 2 - AC Theory** Louis Jraige, 2019-07-21 This homework problem and solution manual accompanies and follows the progression of the AC Electricity courses at Fanshawe College This book also accompanies and follows the progression of the textbook titled Introductory Circuit Analysis 13th edition by Robert L Boylestad and published by Pearson publishing which is used in my Electrical 2 AC Theory course This manual lays out the standards expectations grading breakdown and conventions as well as the required structured approach for problem solving required in my class Finally this manual shows the step by step breakdown solutions to all if not most of the course assigned homework problems from the textbook

**The Analysis and Design of Linear Circuits** Roland E. Thomas, Albert J. Rosa, Gregory J. Toussaint, 2023-04-06 THE ANALYSIS AND DESIGN OF LINEAR CIRCUITS Textbook covering the fundamentals of circuit analysis and design now with additional examples exercises and problems The Analysis and Design of Linear Circuits 10th Edition taps into engineering students desire to explore create and put their learning into practice by presenting linear circuit theory with an emphasis on circuit analysis and how to evaluate competing designs The text integrates active and passive linear circuits allowing students to understand and design a wide range of circuits solve analytical problems and devise solutions to problems The authors use both phasors and Laplace techniques for AC circuits enabling better understanding of frequency response filters AC power and transformers The authors have increased the integration of MATLAB and Multisim in the text and revised content to be up to date with technology when appropriate The text uses a structured pedagogy where objectives are stated in each chapter opener and examples and exercises are developed so that the students achieve mastery of each objective The available problems revisit each objective and a suite of problems of increasing complexity task the students to check their understanding Topics covered in The Analysis and Design of Linear Circuits 10th Edition include Basic circuit analysis including element connection combined and equivalent circuits voltage and current division and circuit reduction Circuit analysis techniques including node voltage and mesh current analysis linearity properties maximum signal transfer and interface circuit design Signal waveforms including the step exponential and sinusoidal waveforms composite waveforms and waveform partial descriptors Laplace transforms including signal waveforms and transforms basic properties and pairs and pole zero and Bode diagrams Network functions including network functions of one and two port circuits impulse response step response and sinusoidal response An appendix that lists typical RLC component values and tolerances along with a number of reference tables and OP AMP building blocks that are foundational for analysis and design With an overarching goal of instilling smart judgment surrounding design problems and innovative solutions The Analysis and Design of Linear Circuits 10th Edition provides inspiration and motivation alongside an essential knowledge base The text is designed for two semesters and is complemented with robust supplementary material to enhance various pedagogical approaches including an Instructors Manual which features an update on how to use the book to complement the 2022 23 ABET accreditation criteria

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International Business Machines Corporation. Data Processing Division, 1970 **Essentials of Circuit Analysis** Robert L. Boylestad, 2004 Created to highlight and detail its most important concepts this book is a major revision of the author's own Introductory Circuit Analysis completely rewritten to bestow users with the knowledge and skills that should be mastered when learning about dc ac circuits KEY TOPICS Specific chapter topics include Current and Voltage Resistance Ohm's Law Power and Energy Series dc Circuits Parallel dc Circuits Series Parallel Circuits Methods of Analysis and Selected Topics dc Network Theorems Capacitors Inductors Sinusoidal Alternating Waveforms The Basic Elements and Phasors Series and Parallel AC Circuits Series Parallel AC Networks and the Power Triangle AC Methods of Analysis and Theorems Resonance and

Filters Transformers and Three Phase Systems and Pulse Waveforms and the Non sinusoidal Response For practicing technicians and engineers      **Introductory Circuit Analysis** Robert L. Boylestad,1990-02      *Subject Guide to Books in Print* ,1996      *Principles of Electric Circuits* Thomas L. Floyd,2009 This text provides an exceptionally clear introduction to DC AC circuits supported by superior exercises examples and illustrations and an emphasis on troubleshooting and applications Throughout the text s coverage the use of mathematics is limited to only those concepts that are needed for understanding Floyd s acclaimed troubleshooting emphasis provides students with the problem solving experience they need to step out of the classroom and into a job For DC AC Circuits courses requiring a comprehensive classroom tested text with an emphasis on troubleshooting and the practical application of DC AC principles and concepts      *The Publishers' Trade List Annual* ,1980      *Electronic Devices and Circuit Theory* Robert L. Boylestad,Louis Nashelsky,1982      **BASIC Applied to Circuit Analysis** Louis Nashelsky,Robert L. Boylestad,1984      **Scientific and Technical Books and Serials in Print** ,1984      **Fundamentals of Electric Circuits** Charles K. Alexander,Matthew N. O. Sadiku,2004      *The Journal of Engineering Education* ,1965      *American Vocational Journal* ,1969      **American Book Publishing Record** ,1990  
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