

Chapter 3 PROBLEMS

For all problems, use the device parameters provided in Chapter 3 (Tables 3.2 and 3.5) and the inside back book cover, unless otherwise mentioned. Also assume $T = 300$ K by default.

1. [E, SPICE, 3.2.2]
 - a. Consider the circuit of Figure 0.1. Using the simple model, with $V_{\text{on}} = 0.7$ V, solve for I_D .
 - b. Find I_D and V_D using the ideal diode equation. Use $I_s = 10^{-14}$ A and $T = 300$ K.
 - c. Solve for V_{on} , V_{off} , and I_D using SPICE.
 - d. Repeat parts b and c using $I_s = 10^{-16}$ A, $T = 300$ K, and $I_s = 10^{-14}$ A, $T = 350$ K.

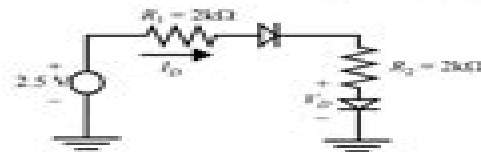


Figure 0.1 Resistor diode circuit.

2. [M, None, 3.2.3] For the circuit in Figure 0.2, $V_s = 3.3$ V. Assume $A_{\text{ox}} = 12 \mu\text{m}^2$, $\phi_0 = 0.65$ V, and $m = 0.5$. $N_A = 2.5 \text{ E}16$ and $N_D = 5 \text{ E}15$.
 - a. Find I_D and V_D .
 - b. Is the diode forward- or reverse-biased?
 - c. Find the depletion region width, W_p , of the diode.
 - d. Use the parallel-plate model to find the junction capacitance, C_j .
 - e. Set $V_s = 1.5$ V. Again using the parallel-plate model, explain qualitatively why C_j increases.



Figure 0.2 Series diode circuit.

3. [E, None, 3.3.2] Figure 0.3 shows NMOS and PMOS devices with drains, source, and gate ports annotated. Determine the mode of operation (saturation, linear, or cutoff) and drain current I_D for each of the biasing configurations given below. Verify with SPICE. Use the following transistor data: NMOS: $k_n' = 115 \mu\text{A/V}^2$, $V_{\text{th}} = 0.43$ V, $\lambda = 0.06 \text{ V}^{-1}$, PMOS: $k_p' = 30 \mu\text{A/V}^2$, $V_{\text{th}} = -0.4$ V, $\lambda = -0.1 \text{ V}^{-1}$. Assume $(W/L) = 1$.
 - a. NMOS: $V_{\text{ox}} = 2.5$ V, $V_{\text{os}} = 2.5$ V. PMOS: $V_{\text{ox}} = -0.5$ V, $V_{\text{os}} = -1.25$ V.
 - b. NMOS: $V_{\text{ox}} = 3.3$ V, $V_{\text{os}} = 2.2$ V. PMOS: $V_{\text{ox}} = -2.5$ V, $V_{\text{os}} = -1.8$ V.
 - c. NMOS: $V_{\text{ox}} = 0.6$ V, $V_{\text{os}} = 0.1$ V. PMOS: $V_{\text{ox}} = -2.5$ V, $V_{\text{os}} = -0.7$ V.
4. [E, SPICE, 3.3.2] Using SPICE plot the I - V characteristics for the following devices.

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Palacios**



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Table of Contents Problem Solution Of Rabaey

1. Understanding the eBook Problem Solution Of Rabaey
 - The Rise of Digital Reading Problem Solution Of Rabaey
 - Advantages of eBooks Over Traditional Books
2. Identifying Problem Solution Of Rabaey
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Problem Solution Of Rabaey
 - User-Friendly Interface
4. Exploring eBook Recommendations from Problem Solution Of Rabaey
 - Personalized Recommendations
 - Problem Solution Of Rabaey User Reviews and Ratings
 - Problem Solution Of Rabaey and Bestseller Lists
5. Accessing Problem Solution Of Rabaey Free and Paid eBooks
 - Problem Solution Of Rabaey Public Domain eBooks
 - Problem Solution Of Rabaey eBook Subscription Services
 - Problem Solution Of Rabaey Budget-Friendly Options

6. Navigating Problem Solution Of Rabaey eBook Formats
 - ePub, PDF, MOBI, and More
 - Problem Solution Of Rabaey Compatibility with Devices
 - Problem Solution Of Rabaey Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Problem Solution Of Rabaey
 - Highlighting and Note-Taking Problem Solution Of Rabaey
 - Interactive Elements Problem Solution Of Rabaey
8. Staying Engaged with Problem Solution Of Rabaey
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Problem Solution Of Rabaey
9. Balancing eBooks and Physical Books Problem Solution Of Rabaey
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Problem Solution Of Rabaey
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Problem Solution Of Rabaey
 - Setting Reading Goals Problem Solution Of Rabaey
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Problem Solution Of Rabaey
 - Fact-Checking eBook Content of Problem Solution Of Rabaey
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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