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.

- [E,SPICE,3.2.2].
 - Consider the circuit of Figure 0.1. Using the simple model, with V_{Dec} = 0.7 V, solve for I_D.
 - b. Find I_D and F_D using the ideal diode equation. Use I_s = 10⁻¹⁴ A and T = 300 K.
 - e. Solve for F_{DE}, F_{DE}, and I_D using SPICE.
 - d. Repeat parts b and c using $I_3 = 10^{-16}$ A, T = 300K, and $I_3 = 10^{-14}$ A, T = 350 K.

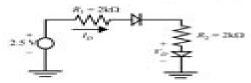


Figure 0.1 Resistor diode circuit.

- [M, None, 3.2.3] For the circuit in Figure 0.2, V_s = 3.3 V. Assume A_O = 12 μm², φ₀ = 0.65 V, and m = 0.5, N_d = 2.5 E16 and N_O = 5 E15.
 - a. Find In and Pre-
 - b. Is the diode forward- or reverse-biased?
 - e. Find the depletion region width, W., of the diode.
 - d. Use the parallel-plate model to find the junction capacitance, C_s
 - e. Set V_i = 1.5 V. Again using the parallel-plate model, explain qualitatively why C_j increases.

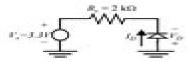


Figure 0.2 Series diode circuit

- 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_B for each of the biasing configurations given below. Verify with SPICE. Use the following transistor data: NMOS: k_a^{*} = 115μA/V², V_B = 0.43 V, λ = 0.06 V⁻¹, PMOS: k_β^{*} = 30 μA/V², V_B = -0.4 V, λ = -0.1 V⁻¹. Assume (W.L) = 1.
 - a. NMOS: $F_{00} = 2.5 \text{ V}$, $F_{00} = 2.5 \text{ V}$. PMOS: $F_{00} = -0.5 \text{ V}$, $F_{D0} = -1.25 \text{ V}$.
 - b. NMOS: $V_{GS} = 3.3 \text{ V}$, $V_{DS} = 2.2 \text{ V}$. PMOS: $V_{GS} = -2.5 \text{ V}$, $V_{DS} = -1.8 \text{ V}$.
 - e. NMOS: $V_{CS} = 0.6 \text{ V}$, $V_{DS} = 0.1 \text{ V}$. PMOS: $V_{CS} = -2.5 \text{ V}$, $V_{DS} = -0.7 \text{ V}$.
- 4. [E, SPICE, 3.3.2] Using SPICE plot the I-V characteristics for the following devices.

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Jin-Ying Zhang

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Artificial Neural Nets. Problem Solving Methods José Mira, José R. Alvarez, 2003-08-03 The two volume set LNCS 2686 and LNCS 2687 constitute the refereed proceedings of the 7th International Work Conference on Artificial and Natural Neural Networks IWANN 2003 held in Ma 3 Menorca Spain in June 2003 The 197 revised papers presented were carefully reviewed and selected for inclusion in the book and address the following topics mathematical and computational methods in neural modelling neurophysiological data analysis and modelling structural and functional models of neurons learning and other plasticity phenomena complex systems dynamics cognitive processes and artificial intelligence methodologies for net design bio inspired systems and engineering and applications in a broad variety of fields nbsp Enzymes for Solving Humankind's Problems José J. G. Moura, Isabel Moura, Luisa B. Maia, 2020-12-01 This book presents specific key natural and artificial systems that are promising biocatalysts in the areas of health agriculture environment and energy It provides a comprehensive account of the state of the art of these systems and outlines the significant progress made in the last decade using these systems to develop innovative sustainable and environmentally friendly solutions Chapters from expert contributors explore how natural enzymes and artificial systems tackle specific targets such as climate change carbon footprint and economy and carbon dioxide utilisation nitrogen footprint and fixation and nitrous oxide mitigation hydrogen production fuel cells and energy from bacteria biomass transformation and production of added value compounds as well as biosensors development This book provides an important and inspiring account for the designing of new natural and artificial systems with enhanced properties and it appeals not only to students and researchers working in the fields of energy health food and environment but also to a wider audience of educated readers that are interested in these up to date and exciting subjects Chapter Carbon Dioxide Utilisation The Formate Route is available open access under a Creative Commons Attribution 4 0 International License via link springer com **Proceedings of the International Conference on Soft** Computing for Problem Solving (SocProS 2011) December 20-22, 2011 Kusum Deep, Atulya Nagar, Millie Pant, Jagdish Chand Bansal, 2012-04-15 The objective is to provide the latest developments in the area of soft computing These are the cutting edge technologies that have immense application in various fields All the papers will undergo the peer review process to maintain the quality of work Modern Age Waste Water Problems Mohammad Oves, Mohammad Omaish Ansari, Mohammad Zain Khan, Mohammad Shahadat, Igbal M.I. Ismail, 2019-06-12 This book presents a picture of the advances in the research of theoretical and practical frameworks of wastewater problems and solutions The book deals with a basic concept and principles of modern biological chemical and technical approaches to remediate various hazardous pollutants from wastewater The latest empirical research findings in wastewater treatment are comprehensively discussed Examples of low cost technologies are also included The book is written for professionals researchers academics and students wanting to improve their understanding of the strategic role of environmental protection and advanced applied

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