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WILL LEARN the characteristics of the
ideal diode and how to analyze and design
circuits containing multiple ideal diodes
together with resistors and dc sources to
realize useful and interesting nonlinear
function the details of the i-v characteristic
of the ...

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structure and operation of the pn junction
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Terminal Characteristics of Junction

Diodes Most common implementation of a diode utilizes pn junction. I-V curve consists of three characteristic regions
forward bias: $v > 0$ reverse bias: $v < 0$
breakdown: $v \ll 0$ discontinuity caused by differences in scale

Chapter #3: Diodes

6 Chapter 7 Problem: 7.96 1. The schematic for this problem is shown below
2. The transistor used here has $k_n' = 71.2 \mu\text{A/V}^2$. So, $W/L = 14\mu/0.5\mu$ is chosen to

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get $k_n = 2 \text{ mA/V}^2$. 3. Simulate the netlist and find out the operating voltages. 4. The other operating parameters are 5.

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2 Chapter 12 4. The cross over interval is
 $2 \times 2.9 \mu\text{s} = 5.8 \mu\text{s}$. So, it is 5.8 %. 5. Run the
parametric analysis and sweep RL from

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500 Ω to 700 Ω in steps of 50 Ω or smaller. Plot $V(VO)$ as shown below. 6. The output voltage is half of the input voltage when $R_L = 650\ \Omega$. Netlist:

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