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Chapter #3: Diodes

6 Chapter 7 Problem: 7.96 1. The schematic for this problem is shown below 2. The transistor used here has $k_n = 71.2 \mu\text{A}/\text{V}^2$. So, $W/L = 14\mu/0.5\mu$ is chosen to get $k_n = 2 \text{ mA}/\text{V}^2$. 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 500 to 700 in steps of 50 or smaller. Plot V(VO) as shown below. 6. The output voltage is half of the input voltage when RL= 650 . Netlist:

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