Homework Assignment No. 13

Due Friday, April 18, 2003 in class

Problem 1 - (10 points)

A differential CMOS amplifier using depletion mode input devices is shown. Assume that the normal MOSFETs parameters are $K_N' = 110V/\mu A^2$, $V_{TN} =$ 0.7V, $\lambda_N = 0.04V^{-1}$ and for the PMOS transistors are K_P =50V/ μ A², V_{TP} = -0.7V, λ_P =0.05V⁻¹. For the depletion mode NMOS transistors, the parameters are the same as the normal NMOS except that $V_{TN} = -0.5V$. (a.) What is the maximum. imput common-mode voltage. $V_{low}^{+}(\max)?$ (b.) What is the minimum input common-mode voltage, V_{icm} (min)? (c.) value of V_{DD} gives an $ICMR = 0.5V_{DD}$?



Problem 2 - (10 points)

Problem 8.2-2 of Allen and Holberg, 2nd edition

Problem 3 - (10 points)

Problem 8.2-8 of Allen and Holberg, 2nd edition.

Problem 4 - (10 points)

The comparator shown has an input applied as shown. Assuming the the pulse width is wide enough, calculate the propagation delay time for this comparator. Assume that the trip point of the output is at 0V.



Analog Integrated Circuit Design Problem Answers

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