

CMOS Digital Integrated Circuits Analysis and Design 4th Edition Kang

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6.1 Does the inverter with a lower V_{OL} always have the shorter high-to-low switching time?

Justify your answer.

SOLUTION:

A low V_{OL} means that the transconductance k of the driver is higher than that of the load. This means that W/L of the driver must be relatively large, necessitating that it takes up more area. Thus, its capacitance will be higher on the average. So the high-to-low switching delay time might in fact be larger since $\tau = C_L \Delta V / I$.

6.2 Consider switching delays for 10 fF in a 10-k Ω resistive-load inverter circuit, where

$$\mu_n C_{ox} = 98.3 \text{ } \mu\text{A/V}^2$$

$$(W/L)_n = 10$$

$$V_{T,n} = 0.53 \text{ V}$$

$$E_{c,n} L_n = 0.4 \text{ V}$$

- (a) Find τ_{PHL} (50% high-to-low transition delay) by using the average-current method. Assume that the input signal is an ideal rectangular pulse switching between 0 and 1.2 V with zero rise/fall times. You will have to calculate V_{OL} to solve this problem.
- (b) By using an appropriate differential equation and the proper initial voltage across the capacitor (when the input voltage is at V_{OH}) which is V_{OL} and not 0 V, calculate τ_{PLH} . Use the same input voltage as in part (a).

SOLUTION:

(a)

First find V_{OL} : the transistor operates in linear region when $V_{DS} = V_{OL}$, therefore,

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Embracing the Track of Phrase: An Psychological Symphony within **Cmos Digital Integrated Circuits Manual**

In a world used by screens and the ceaseless chatter of fast conversation, the melodic splendor and psychological symphony developed by the prepared word often fade into the backdrop, eclipsed by the persistent sound and distractions that permeate our lives. But, nestled within the pages of **Cmos Digital Integrated Circuits Manual** a charming fictional treasure brimming with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that fascinating masterpiece conducts visitors on an emotional journey, skillfully unraveling the hidden songs and profound impact resonating within each cautiously crafted phrase. Within the depths of the poignant assessment, we shall examine the book is central harmonies, analyze their enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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