Homework Assignment No. 13

Due on Friday, April 23, 2004

1.) Problem P10.11 of the text (10 points)

[Ans: 0.13µm technology will need approximately twice the number of inverters as 0.18µm technology].

2.) Problem P11.2a of the text (10 points)

[Ans: Assume the inverter currents are $550\mu A$ each. The worst case drop is 0.43V]

3.) Problem P11.10 of the text (20 points)

[Ans: You answer should have an initial chain of inverters that can drive the long wire with buffers inserted to reduce the wire delay. The total delay through the circuit should be close to 600ps.]