

Homework Assignment No. 6

Due on Wednesday, February 25, 2004

1.) Problem P5.10 of the text.

[Answers: $W_p = 63\lambda$, $W_n \approx 27\lambda$]

2.) Problem P5.11 of the text.

[Answers: (a.) $66\mu\text{W}$, (b.) $4.4\mu\text{W}$]

3.) Problem P5.12 of the text.

[Answers: P_{stat} (pseudo-NMOS) = $15.4\mu\text{W}$, P_{stat} (CMOS) ≈ 0 , express P_{dyn} as a function of f_{avg})]

4.) Problem P5.16 of the text.

[Answers: $W \approx 1\mu\text{m}$]