

Physics 334, Winter Quarter 2013
Electric Circuits I
Homework Assignment 6: FET circuits
Due Tuesday February 19

Note: Sloppy work will not be graded and will receive zero points

1. Exercise 3.1 (p. 128) in the textbook.
2. “Bad Circuits”. (a) In ten words or less for each circuit, explain why each of the upper three “analog switches” (p. 173 in textbook) are bad.
3. More “Bad Circuits”. (a) In ten words or less, explain why the “C. logic switch” (p. 173 in textbook) is bad. (b) In this circuit, replace the JFET by the 2N4351 n-channel MOSFET. Assume the control signal has source impedance 250Ω . Estimate how fast can this circuit switch on or off? (You’ll need to look at a data sheet.)

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