

ENEE 408D  
Spring 2003  
Homework 10 Due 5/6, 2003

Read sections 22.1, 22.2, 24.1. (not including noise), 25.1

Do the following problems from (BLB).

1. Use the intuitive approach to calculate the small signal voltage gain of the four configurations in Fig. 22.1 on page 480. Assume that all circuits are already biased in saturation. Leave your answers in terms of parameters like  $g_m$ .
2. 22.1
3. 22.4
4. 22.8
5. Verify the result in example 22.4 on page 499 of BLB
6. 24.1
7. 24.5