

April 14, 2022

## ECEN 326

### Homework #7

Due: 4-21-2022, 11:59PM

**Homeworks will not be received after due.**

Instructor: Sam Palermo

Solve the following problems from the Razavi text:

12.51, 12.57\*, 12.65, 12.71, 12.75\*\*

\*For the Bode Magnitude Plots of Problem 12.57, assume an arbitrary “ $A_v$ ” for the DC gain (a), (b), or mid-band gain (c), (d).

\*\*Note that the TIA of Problem 12.75 has a formal negative gain. Thus, the open-loop and closed-loop gain spec should be  $-20\text{k}\Omega$  and  $-1\text{k}\Omega$ , respectively.