

UNIVERSITY OF CALIFORNIA AT BERKELEY EECS Department

EECS 40, Summer 2005

Instructor: Octavian Florescu

Homework #4

Due Tuesday, July 19, 2005 at 6PM in HW Box (2nd floor lounge)

Note: Be sure to put (1) your name and (2) discussion section number on your homework. You will get the graded homework back in your discussion session.

Lowpass Filters

- Problem 1: Problem 6.17 in the textbook
- Problem 2: Problem 6.19 in the textbook
- Problem 3: Problem 6.25 in the textbook
- Problem 4: Problem 6.26, part a only, in the textbook

Highpass Filters

- Problem 5: Problem 6.55 in the textbook
- Problem 6: Problem 6.58 in the textbook

Inverting Amplifiers

- Problem 7: Problem 14.9 in the textbook

Noninverting Amplifiers

- Problem 8: Problem 14.16 in the textbook
- Problem 9: Problem 14.18 in the textbook
- Problem 10: Problem 14.20 in the textbook
- Problem 11: Problem 14.26 in the textbook

(Note: The fact that there are more noninverting amplifier problems than inverting amplifier problems doesn't mean that they are more important or even weighted more heavily in this class. The homework problems from the book were just better in that section)

Integrators and Differentiators

- Problem 12: Problem 14.64 in the textbook

Active Filters

- Problem 13: Problem 14.66 in the textbook