

ENEE 460 Fall 2016 **Homework Set 7**: Assigned Friday October 28, 2016 - due back **at the start** of class on Monday, November 7, 2016

1. READING ASSIGNMENT – Chapter 5, section 5.4. In this section, when you come to Krasovski-Lasalle invariance principle, first read Example 5.12 to appreciate the need for this principle. Then get back to the principle – I'll explain more in class on Monday October 31.

2. READING ASSIGNMENT – Chapter 7, section 7.1 and 7.2 inclusive. (By now you should be fully conversant with all the main ideas in Chapter 6 to work your way into Chapter 7.)

Work on these problems ONLY after you have done the reading. Doing these carefully will help you become prepared for the Midterm Exam II (November 9).

3. Problem 5.1 (hint – what does it mean to be a solution?)

4. Problem 5.4

5. Problem 5.5

6. Problem 7.2

7. Problem 7.3

8. Problem 7.6

9. Problem 7.7 (follow book notation closely)

10. Problem 7.8

11. Problem 7.9