

Mechanics and Special Relativity, Spring 2006

Homework Assignment # 8

(Due Wednesday, April 12, before the lecture.)

Lectures and Reading Assignments:

Readings are from “*An Introduction to Mechanics*” by Kleppner and Kolenkow.

- Lec 30, 4/7 (Fri): The Gyroscope. **Sec. 7.1–7.3 (pp. 288–300).**
- Lec 31, 4/10 (Mon): The Harmonic Oscillator. **Sec. 10.1 (pp. 410–414).**
- Lec 32, 4/12 (Wed): The Damped Harmonic Oscillator. **Sec. 10.2 (pp. 414–421).**

Problems:

Numbered problems are from “*An Introduction to Mechanics*” by Kleppner and Kolenkow, Chapter 6 (pp. 279–286).

1. Problem 6.2
2. Problem 6.6
3. Problem 6.10
4. Problem 6.18
5. Problem 6.20
6. Problem 6.26
7. Problem 6.30
8. Problem 6.39