

Mechanics and Special Relativity, Spring 2006

Homework Assignment # 7.5

Lectures and Reading Assignments:

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

- Lec 27, 3/31 (Fri): Fixed Axis Rotation. **Sec. 6.4–6.6 (pp. 248–260).**
- Lec 28, 4/3 (Mon): Motion Involving Both Translation and Rotation. **Sec. 6.7 (pp. 260–270).**
- Lec 29, 4/5 (Wed): The Gyroscope. **Sec. 7.1–7.3 (pp. 288–300).**

Problems:

There is no mandatory problem assignment this week. To get ready for the prelin (Thu 4/6), you are advised to practice solving problems from Chapters 3 and 4 of Kleppner and Kolenkow. Here are some good ones: 3.4, 3.8, 3.10, 3.12, 3.17, 4.9, 4.11, 4.14, 4.24, 4.26. Also, working through the examples discussed in the book is generally very useful. I especially recommend examples 3.5, 3.6, 3.11, 3.12, 3.13, 4.6, 4.14, 4.16, 4.17, 4.18. Finally, practice prelin will soon be posted on the web.