

Principles and Applications of Laser

Syllabus for 2016

Text and References

- Text: Principles of Lasers--Svelto
- References:
 - 1. Lasers--Seigman
 - 2. Laser Spectroscopy Vol. I--Demtroder
 - 3. Optics, Light and Lasers

Exams and Mark

- Two middle term exams--4.10, 5.29 (60%)
- Term report and presentation on “Various laser system”(20%)
- Homeworks (20%)

Schedule

- 9.12,15:Introduction
- 9.19,22:What is laser?
- 9.26,29: Interaction of Radiation with matter (I)
- 10.3,6: Interaction of Radiation with matter (II)
- 10.17,20:Pumping Processes(I)
- 10.31,11.3: Pumping Processes(II)
- 11.7,10.20: 1st Exam
- 11.14,17: Passive Optical Resonator

- 11.21.24: Properties of Laser Beams
- 11.28, 12.1: Laser Beam Transformation
- 12.5, 8.24: C.W. and Transient Laser Behavior
- 12.12, 15: Exam II
- 12.19, 22: Related Instruments(I)
- 12.26, 29: Related Instruments(II)
- 1.2, 5: Various Laser systems and Term Presentatio

- 助教：？
- 要找助教或老師請到r307