

Physics 390: Practice problems for Midterm 2

The following problems from Tipler & Llewellyn are suitable as practice problems for the upcoming second midterm. (Note: In my copy of Tipler & Llewellyn all the problem numbers at the end of Chapter 6 are misprinted as 8-1, 8-2, etc., instead of 6-1, 6-2. Go figure.)

1D quantum mechanics:

Problems 6-7, 6-42, 6-45, 6-50, 6-52, 6-65

3D quantum mechanics and atomic physics:

Problems 7-1, 7-9, 7-10, 7-11, 7-16, 7-17, 7-22

Spin and angular momentum:

Problems 7-33, 7-34, 7-45, 7-51, 7-52

Statistical mechanics:

Problems 8-17, 8-21, 8-23