

Physics 136b, Week 1: Elastostatics

(Dated: due January 11, 2012)

The maximum number of points you can get for this assignment is **30**, although you could choose to do problems that worth more than 30 points.

This week we discussed elastostatics, covering Secs. 11.1 to 11.4 of Blandford and Thorne (BT).

1. **Decomposition of the Stress tensor.** Exercises 11.1 and 11.2 of BT. [15 Points]
2. **Biharmonic equation.** Exercise 11.4 of BT. [10 Points]
3. **Action Principle for Elastostatics.** Exercise 11.6 of BT. [15 Points]