

CHAPTER 11: ELASTODYNAMICS

Reading:

Chapter 11 of Blandford and Thorne.

Problems: solutions due in class on Wednesday, 19 January

A. Do:

1. Exercise 11.3 Solving the algebraic wave equation by matrix techniques, OR
2. Exercise 11.9 Reflection and transmission of normal, longitudinal waves at a boundary

B. Do:

1. Exercise 11.4 Lagrangian and energy for elastodynamic waves, OR
2. Exercise 11.6 Speeds of elastic waves

C. Do:

1. Exercise 11.2 Influence of gravity on wave speed, OR
2. Exercise 11.7 Xylophones

D. Do: Exercise 11.10 Earthquakes