

CHAPTER 12: FOUNDATIONS OF FLUID DYNAMICS

Reading:

Chapter 12 of Blandford and Thorne.

Problems: solutions due in class on Wednesday, 31 January

A. Do:

1. Ex. 12.8, A hole in my bucket, OR
2. Ex. 12.16 Mean free path

B. Do:

1. Ex. 12.7, Shapes of stars in a tidally locked binary system, OR
2. Ex. 12.9, Rotating planets, stars and disks

C. Do:

1. Ex. 12.10, Crocco's theorem, OR
2. Ex. 12.17, Kinematic interpretation of vorticity

D. Do:

1. Ex. 12.12, Cavitation, OR
2. Ex. 12.13, Collapse of a bubble