

CHAPTER 19 and First half of CHAPTER 20

Reading: Chapter 19, *Particle Kinetics of Plasma*, focusing primarily on Sections 19.1 – 19.5 [pages 1–18]; also Sections 20.1, 20.2, and 20.3 [pages 1–15] of Chapter 20, *Waves in Cold Plasmas: Two Fluid formalism*

Problems

- A. DO one of:
 - Exercise 19.1, Boundary of Degeneracy, OR
 - Exercise 19.4, Ion-ion Equilibration Rate for a He³ Plasma.
- B. Exercise 19.6, Parameters for Various Plasmas
- C. Exercise 19.7, Equilibration Time for a Globular Cluster
- D. DO one of:
 - Exercise 20.2, Effect of Collisional Damping, OR
 - Exercise 20.4, Ion Acoustic Solitons