

Problem Set 2

ESS 576 / A&A 556

Winter 2011

Note: Find this information on line at the class webpage:
<http://earthweb.ess.washington.edu/bobholz/ess576aa556/>

Due Friday Feb 4

- 1. Exercise on top of Page 73 of Nicholson Chapter 6 second sentence: “Verify by direct substitution that (6.11) ...” (i.e. Assume you already KNOW that v_{perp} is a constant of motion (from the 1st adiabatic invariant $\mu = \frac{1}{2} m (v_{\text{perp}})^2 / B$).**
- 2. Exercise on bottom of Page 76 of Nicholson Chapter 6 items (a), (b) and (c) only.**
- 3. Exercise on Page 90 of Nicholson Chapter 6**
- 4. Problem 6.2, (Nicholson, P. 125)**
- 5. Problem 6.3**
- 6. Problem 6.4**