

AE3521

Fall 2001 Homework #3

Due: Tuesday October 2, 2001 at beginning of class or before

1. Wiesel chapter 1, problem 2, p. 39 (1 point).
2. An airplane is traveling with speed V due south with constant altitude at latitude λ . Determine the Coriolis acceleration relative to the Earth (this problem is from Thomson p. 28). Assume the angular rate of the rotation of the Earth is ω_E (2 points).
3. Wiesel chapter 1, problem 6, p. 40 (4 points).
4. Wiesel chapter 4, problem 6, p. 123 (6 points).