

530.215 MECHANICS-BASED DESIGN

Homework IV

Due Feb. 27, 2009

1. Juvinall, Problem 4.58
2. Juvinall, Problem 4.59
3. Juvinall, Problem 5.2
4. Juvinall, Problem 5.6
5. Juvinall, Problem 5.8
6. Riley, Problem 10.50
7. Riley, Problem 10.114
8. Riley, Problem 10.116
9. A pressure cylinder has a diameter of 150 mm and has a 8-mm wall thickness. What pressure can this vessel carry if the maximum shear stress is not to exceed 25 Mpa ?