

ME 354 Homework #3

Due: February 1st, 2008 before class.

- 1) Dowling, Problem 7.5. Use Figure A.7 (a) on page 857. 18 Ni Steel has a yield strength of 1791 MPa. Calculate the safety factors at both inside and outside radius of the pipe.
- 2) Dowling, Problem 7.35. Assume cast gray iron is a brittle material. Hint: $\tau_{xy} = k_t S$.