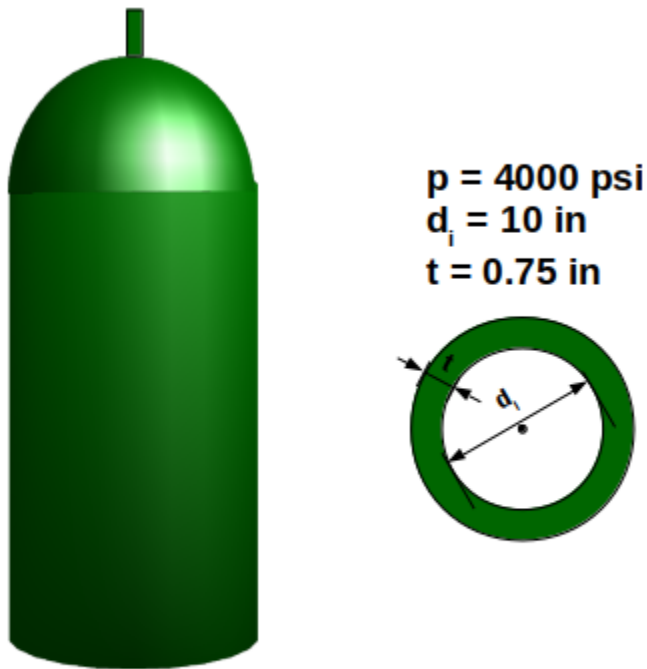


Date: 2nd May 2019

For the cylindrical thin-walled steel pressure vessel with inner diameter, $d_i = 10$ in, and a wall thickness, $t = 0.75$ in, calculate:

- (a) the axial stress, σ_a , and,
(b) the hoop stress, σ_h .



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Answers (refer to solutions for detail)

(a) $\sigma_a = 13.3$ ksi

(b) $\sigma_h = 26.7$ ksi