HW 6: Due 3/12/04

1. Book Problem 2; you are to do this problem by hand.

2. For the hanger shown determine the elongation for the given load; find the maximum permissible load before yielding according to mises criteria. Use the options under "Structural Mechanics Module" to do this problem (not the ones under "Physics modes" or "Structural Mechanics Module 1.1").

4 in

2.5 in

0.125 in
fillet radius

2024–T4 Aluminum

E = 10.6e6 psi
μ = 4.0e6 psi

$\sigma_{-\text{yield}}$ = 60e3 psi

5 in

0.5 in

Thickness = 0.125 in

2.5

1500 lbf

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