

Problem 7.D4

See Figure 7.17.

- (a) Copper. To get the yield strength takes about 60% CW. If you have 60% CW then ductility (%EL) goes down to less than 15%. Copper won't work .
- (b) Brass. To get the yield strength we need at least 20% CW. For the ductility we need no more than about 23% CW. So for a narrow envelope between 20% and 23% CW, brass would work.
- (c) Steel. You get the needed yield, or way beyond it, with no CW. For the ductility, you want to keep $CW < 5\%$.. So steel would work with no CW.