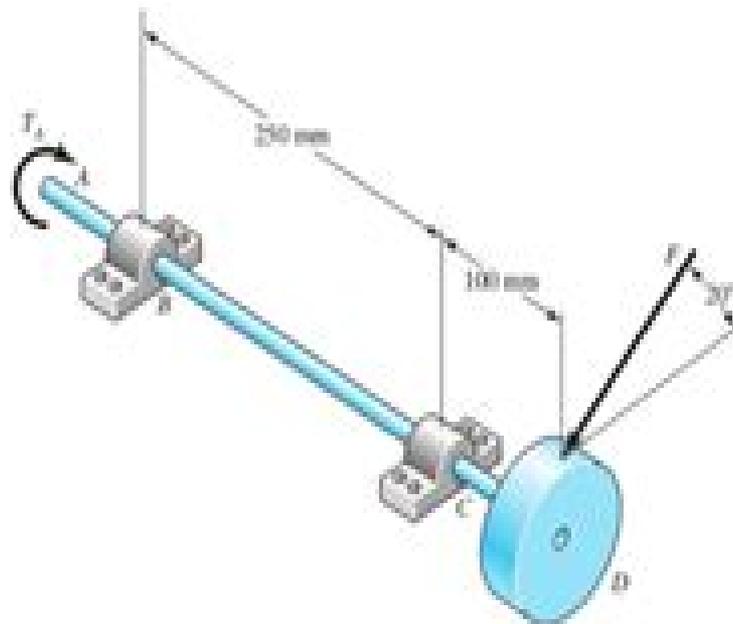


MET 4003
Machine Design
Homework #6 Problems

3. For a machined shaft with material properties below and depicted in the figure below, rotating and simply supported at B and C, driven by gear (not shown) that meshes with spur gear at D, with pitch diameter of 200 mm. Torque at A, $T_A = 450 \text{ N} \cdot \text{m}$ and a safety factor of 2.0. Determine the minimum diameter of the shaft between B and C using (a) static yield analysis using distortion energy theory. (b) Fatigue-failure analysis DE-Goodman criteria. Assume sharp fillet radii at the bearing shoulders for estimating stress-concentration factors, $K_s = .85$, a q of .85 and a q_{fillet} of .95.
- $S_u = 600 \text{ Mpa}$
 $S_y = 400 \text{ Mpa}$



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