ME 260: Structural Optimization: Size, Shape, and Topology		
Assigned: Oct. 29, 2026	Homework 5	Due: Nov. 8, 2026

Problem 1 (20 points) "Using COMSOL for topology optimization"

Solve a 2D and a 3D topology optimization problem for minimizing strain energy subject to volume constraint using COMSOL. Plot strain energy density to see how uniform it is throughout the optimized structure.

Problem 3 (20 points) "Using nTop for topology optimization"

Solve the same 3D problem using nToP. Comment on any differences you see between nTop and COMSOL.

What to submit:

Pictures of your boundary conditions and load, the solution images.

Bonus point if you 3D-print your structures.