

# MANUF 2208

## Mid-Term Exam (FA2021)

### WRITTEN SECTION: 150 points

1. What does the acronym FEA stand for?
2. What does the acronym CFD stand for?
3. What is MPa?
4. What is Yield Strength?
5. What is Ultimate Strength?
6. What is Breaking Strength?
7. What is recommended F.O.S. for an Airplane?
8. What is the MPa (Yield Strength) of Kevlar?
9. What is the MPa (Yield Strength) of Human Bone?
10. In FEA what is the difference between Linear and Non-Linear analysis?
11. What is de-featuring, and why might it be used in FEA?

**LAB SECTION:** 150 points

**Part Link:** [Midterm Rear Phone Bezel](#)

Run an analysis on the rear phone bezel with the assumption that the mounting clips ([green arrow](#)) must endure at least 100 lbs of force from the top of the phone bezel. You must provide a detailed report with your findings.

(MATERIAL: Acrylic)

