Mechanics of Materials

Lecture 5 - Exam 1 Review

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1 September, 2020

schedule

- 1 Sep Exam Review, Homework 2 Due
- 3 Sep Axial Load (not on Exam 1)
- 4 Sep Project 1 Due
- 8 Sep Exam 1 (online, no recitation this day)
- 10 Sep Axial Load

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outline

exam

- 5 questions
- open book/note (but timed, these may not help you)
- Equation sheet posted to web-site/Blackboard
- Follow directions

3

4

topics

- Chapter 1 stress
 - Equilibrium
 - Internal forces
 - Normal stress
 - Shear stress
 - Allowable stress, limit state design

topics

- Chapter 2 strain
 - Deformation
 - Normal strain
 - Shear strain

topics

- Chapter 3 mechanical behavior
 - Stress-strain
 - Strain energy
 - Poisson's ratio
 - Shear stress-strain