

# 材料力學

## Mechanics of Materials

舒貽忠 教授

應用力學研究所

Schedule: Monday (7、應 111), Tuesday (34、應 233)

### **COURSE OUTLINE:**

1. Introduction and Review of Statics
2. Analysis of Stress: Concepts and Definitions
3. Analysis of Strain: Concepts and Definitions
4. Material Properties and Stress-Strain Relationships
5. Axial Loading Applications and Pressure Vessels
6. Torsional Loading of Shafts
7. Flexural Loading: Stresses in Beams
8. Flexural Loading: Beam Deflections

### **Textbook:**

W. F. Riley, L. D. Sturges, and D. H. Morris, *Mechanics of Materials*, 6th Ed., John Wiley & Sons, 2007.

### **Reference:**

J. M. Gere and B. J. Goodno, *Mechanics of Materials*, 7th Ed., CENGAGE Learning, 2008.

### **Grading:**

Homework: 20%

Midterm examination: 40%

Final examination: 40%

### **Contact Telephone Number:**

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