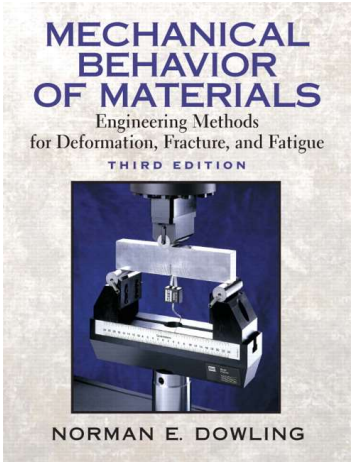
Course reading material – Week 44



Course book

Mechanical Behavior of Materials Engineering Methods for Deformation, Fracture, and Fatigue, Norman E. Dowling

- Lecture 1: Sections 2.3-2.5, 9.5
- Lecture 2: Sections 9.1-9.4, 9.9

Optional reading material given in MyCourses webpages

- W. Schlitz, W. 1996. A history of fatigue, Engineering Fracture Mechanics, 54:263-300.
- Sachs, N.W. 2005. Fracture features: Understanding the Surface Features of Fatigue Fractures: How They Describe the Failure Cause and the Failure History, Journal of Failure Analysis and Prevention, 2:11-15.
- Metal fatigue in engineering, S.I. Stephens, A. Fatemi, R.R. Stephens, H.O. Fuchs, Chapter 2 – Fatigue design methods
- MEC-E8006_Loading history analysis_SelfStudy.pdf
- MEC-E8006_Rainflow_counting_Step-by-step.pdf
- ASM International. 2008, Elements of Metallurgy and Engineering Alloys, Chapter 14 Fatigue