

Course reading material – Week 48

Course book

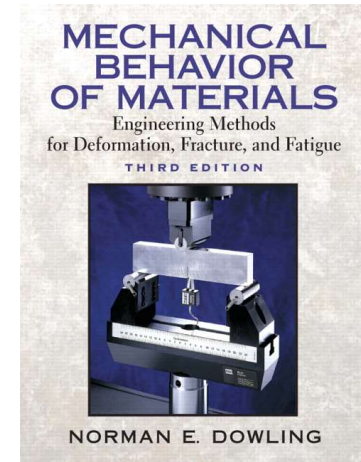
Mechanical Behavior of Materials Engineering Methods for Deformation, Fracture, and Fatigue, Norman E. Dowling

- Section: 9.6.4, 10.9.2, 13.3-13.6, 10.8.4.

Metal Fatigue in Engineering Book

- Chapter 12 – Fatigue weldments

Alternative
preferable
reading
materials



Optional reading material given in MyCourses webpages

- Sticchi, M., Schnubel, D., Kashaev, N., and Huber, N. Review of Residual Stress Modification Techniques for Extending the Fatigue Life of Metallic Aircraft Components. Appl. Mech. Rev. 2015, 67:010801.
- James, M.N. Residual stress influences on structural reliability, Engineering Failure Analysis, 2011, 18:1909-1920.
- D. Radaj, C.M. Sonsino, W. Fricke, Recent developments in local concepts of fatigue assessment of welded joints, International Journal of Fatigue, 2009, 31:2-11,
- H. Remes, P. Gallo, J. Jelovica, J. Romanoff, P. Lehto, Fatigue strength modelling of high-performing welded joints, International Journal of Fatigue, 2020, 135
- F. Berto, P. Lazzarin, A review of the volume-based strain energy density approach applied to V-notches and welded structures, Theoretical and Applied Fracture Mechanics, 2009, 52:183-194