



MC123

Fatigue Analysis Requirements in ASME Boiler and Pressure Vessel Code Section VIII, Division 2 – Alternative Rules

- Overview of Fatigue
 - Mechanism/concepts of Fatigue
 - Cycle counting
 - Div. 2 Fatigue general requirements and new requirements from API 579-1/FFS-1
 - Fatigue Screening method and example

- Base Metal Fatigue Analysis
 - Assessment procedure
 - Fatigue strength reduction factors
 - Plasticity correction factor
 - Example problem
 - Elastic-plastic fatigue method

- Welded Fatigue
 - Overview of welded fatigue and inherent differences vs. smooth bar fatigue
 - Structural stress fatigue method background
 - Div. 2 implementation of structural stress method and API 579-1/FFS-1
 - Example problem
 - Case Histories/Demonstration Examples