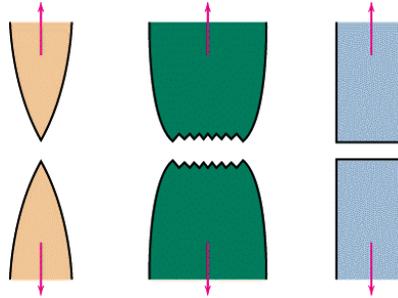
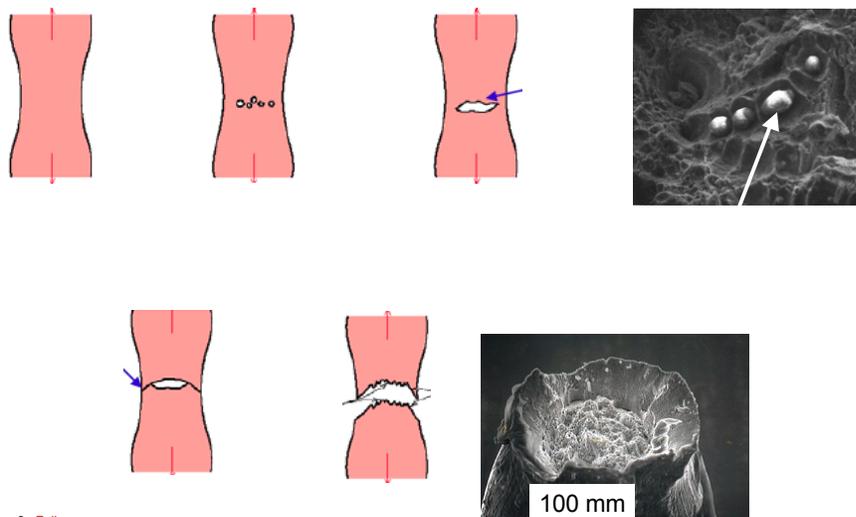


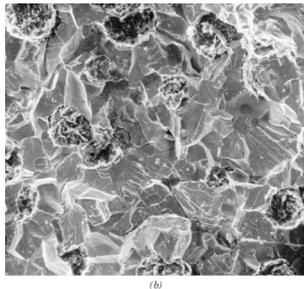
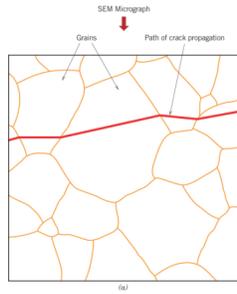
Ductile and brittle fracture



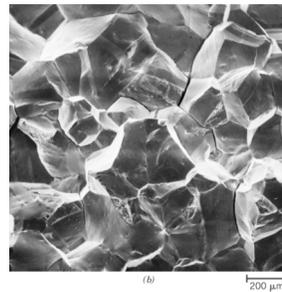
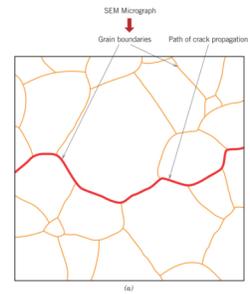
Moderately ductile fracture



Brittle fracture

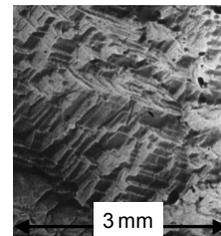
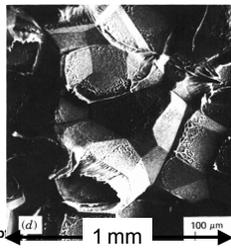
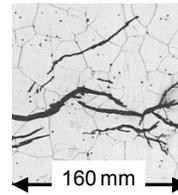
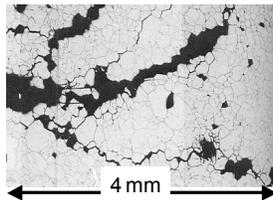


Chapter 8 Failure



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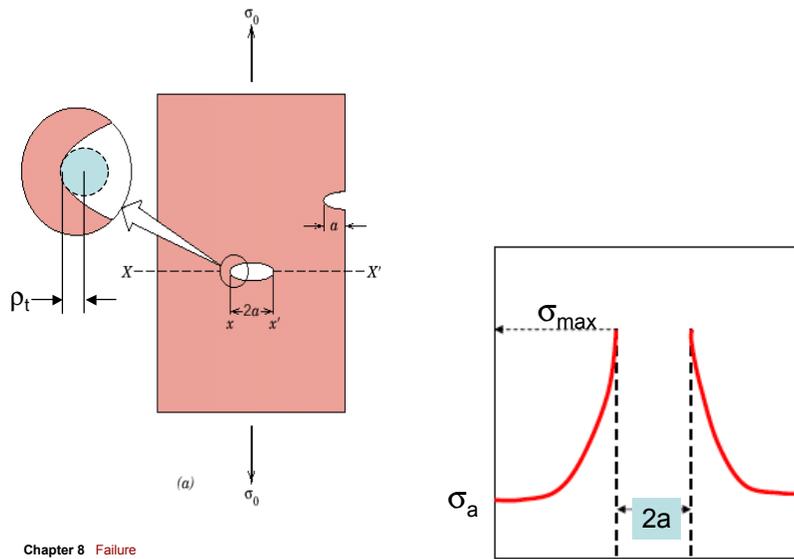
Brittle fracture surfaces



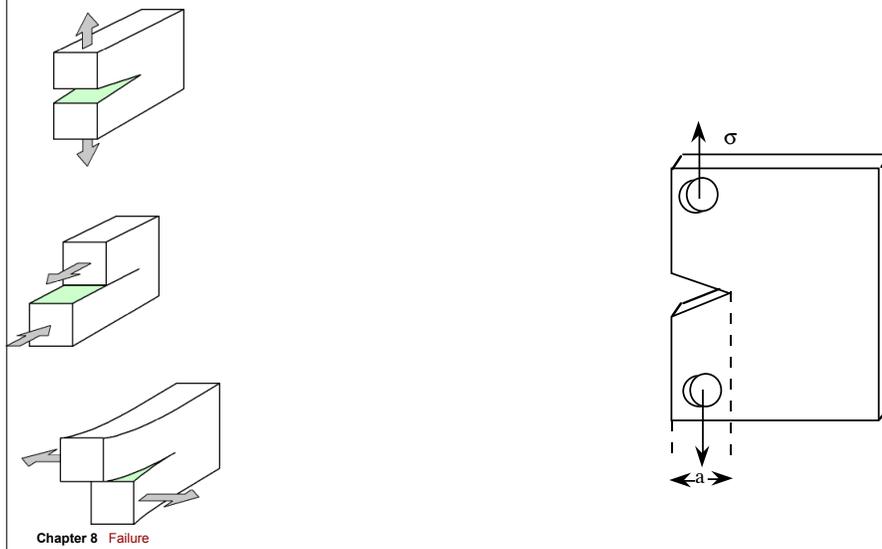
Chap

4

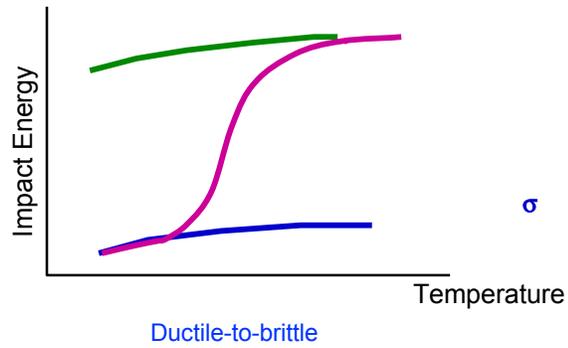
Stress concentration factor



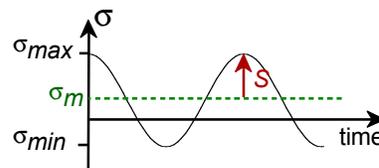
Fracture modes



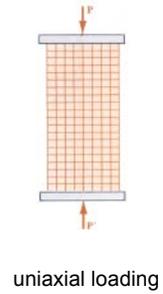
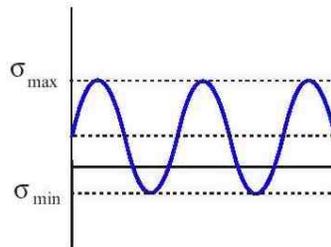
Temperature effect on impact energy



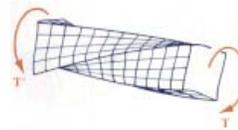
Cyclic loading



Cyclic stress

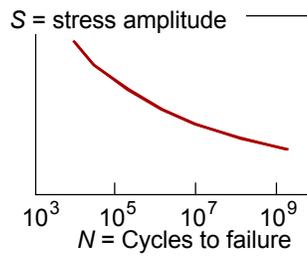
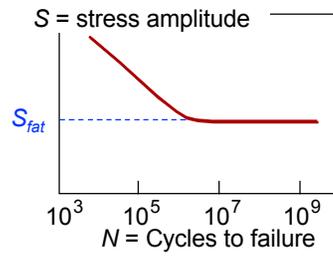


flexural loading

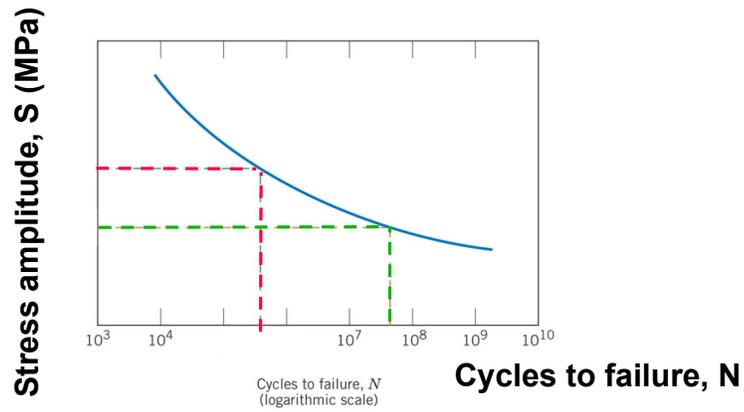


torsional loading

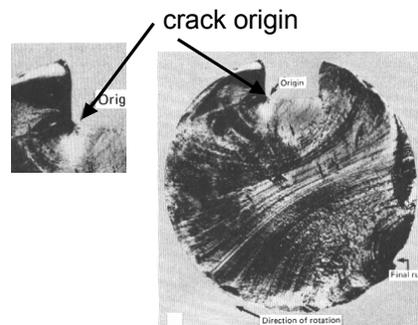
Fatigue Design Parameters

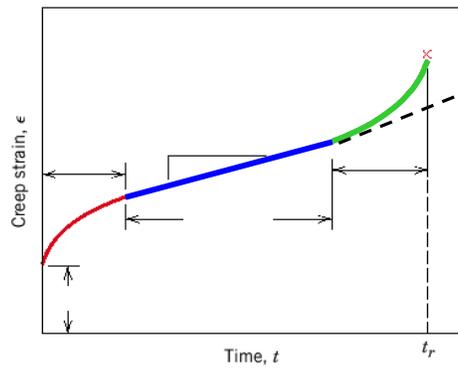
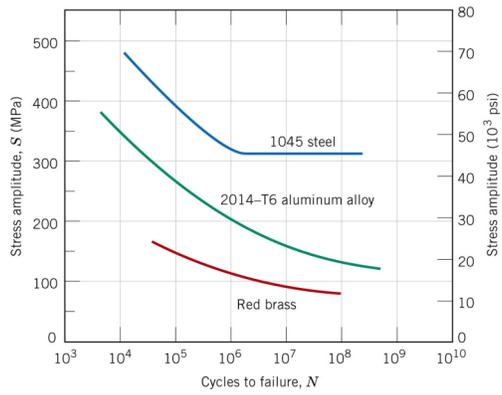


The S-N curve

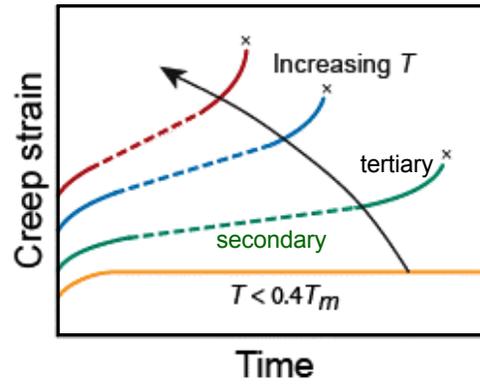


Fatigue Mechanism

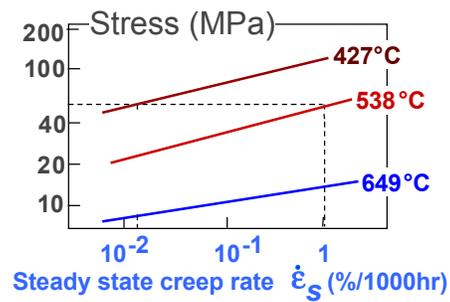




Creep - temperature dependence



Secondary Creep



Prediction of Creep Rupture Lifetime

