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Fracture Toughness Example: Allowable Pressure in Cracked Titanium Tube; Optimizing Yield Strength ~~Lecture 6: Elastic plastic fracture mechanics~~
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Ductile vs. brittle fracture Principles of fracture mechanics Stress concentration Impact fracture testing Fatigue (cyclic stresses) Cyclic stresses, the S-N curve Crack initiation and propagation Factors that affect fatigue behavior Creep (time dependent deformation)

$\sigma_{cr} = \cos \phi \sigma_f$ plastic deformation of

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