



NECKING HAPPENS WHEN THE CROSS-SECTIONAL AREA DECREASES AFTER THE ULTIMATE STRESS



DUCTILE materials can undergo large plastic deformations before fracture

BRITTLE materials fracture with little or no deformation

STRAIN (or WORK) HARDENING is when the yield point is at a higher stress level than the original yield point. Basically, from the previous page, Scalar's ladder doesn't change in slope, but it changes in height after the original yield point. Whenever the ladder is higher than the original ladder is where the yield point is higher (that's where strain hardening occurs.)