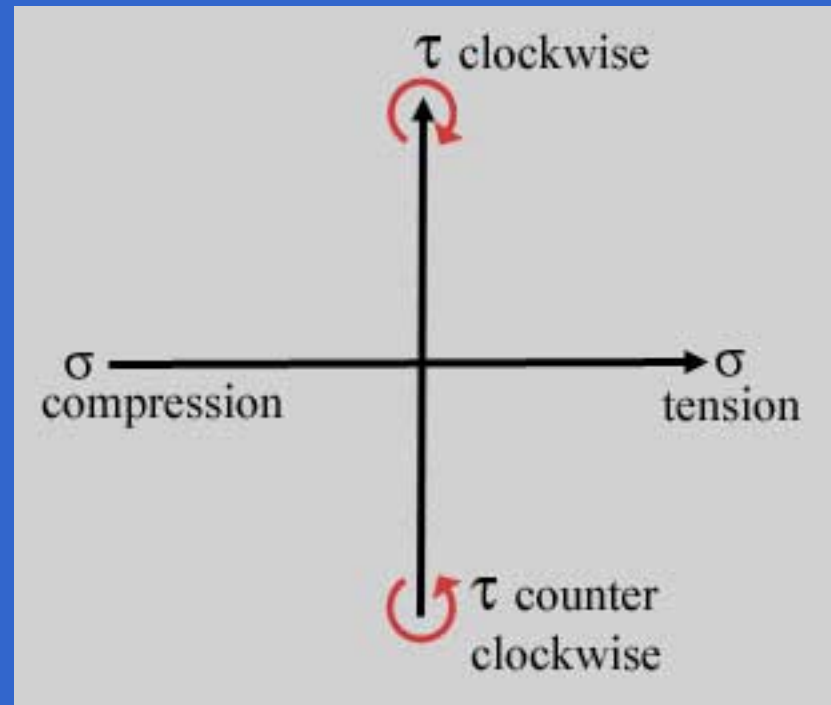
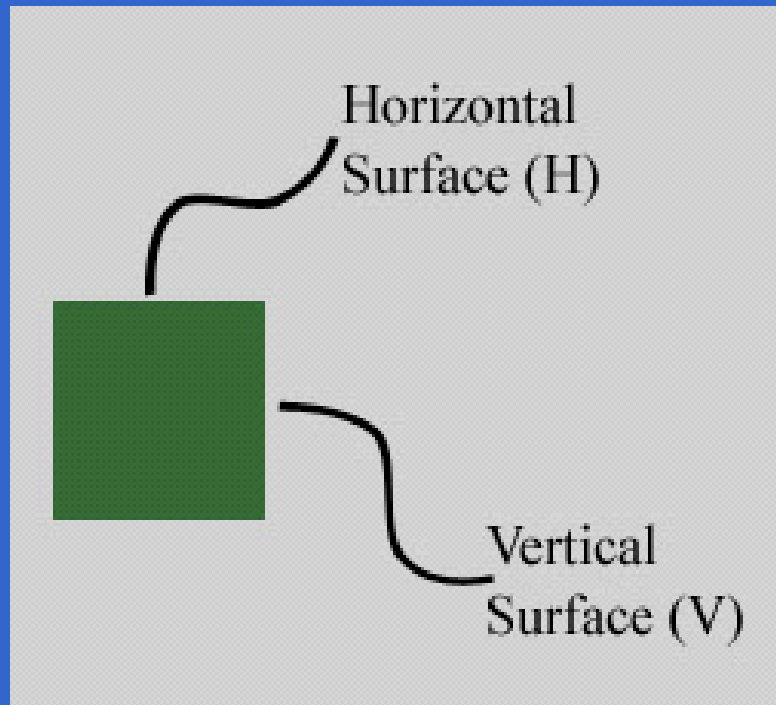
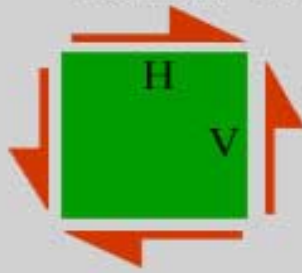


Mohr's Circle - Definitions



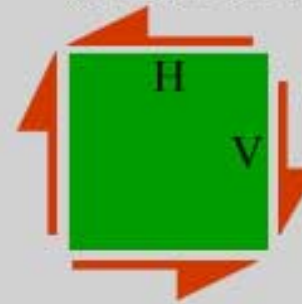
Mohr's Circle – Plotting Stresses

τ on H produces clockwise moment; plots in top half of Mohr's Plane



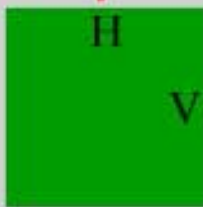
τ on V produces counter clockwise moment; plots in bottom half of Mohr's Plane

τ on H produces counter clockwise moment; plots in lower half of Mohr's Plane



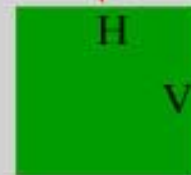
τ on V produces clockwise moment; plots in upper half of Mohr's Plane

σ on H is tension; plots in right half of Mohr's Plane



σ on V is tension; plots in right half of Mohr's Plane

σ on H is compression; plots in left half of Mohr's Plane



σ on V is compression; plots in left half of Mohr's Plane

Mohr's Circle - Calculations

- Plot stress-state on vertical surface as point V with coordinates (σ_V, τ_V) .
- Plot stress-state on horizontal surface as point H with coordinates (σ_H, τ_H) .
- Find location of center of Mohr's Circle as midpoint of V and H.
- Find radius of Mohr's Circle as half the distance between points V and H.