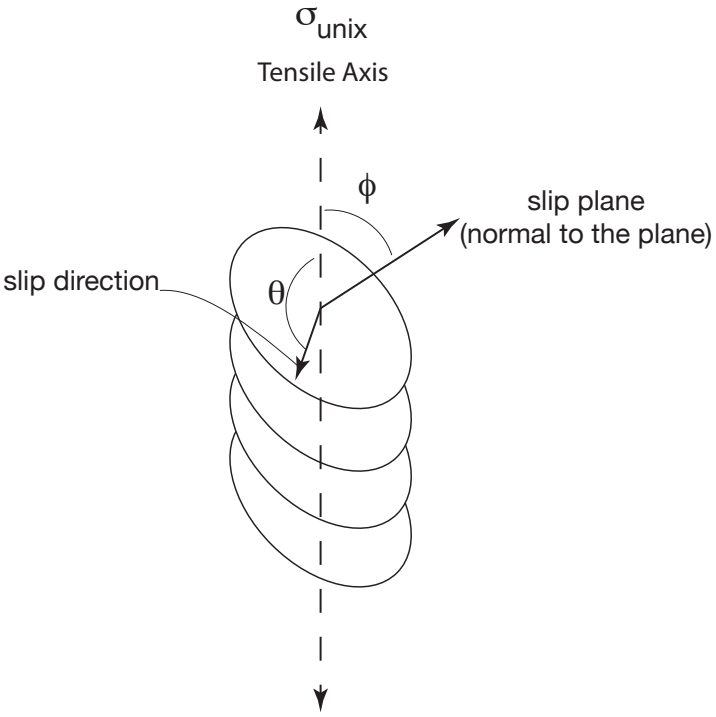
# HW08: Question related to Slip Plane and Slip Direction




In the above schematic the normal to the slip plane is at an angle $\theta$ with respect to the tensile axis, while the slip direction is at an angle $\phi$ to the tensile axis.

Show that the shear stress in the slip plane in the slip direction is given by

$\sigma_{unix} \cos \theta \cos \phi$

This shear stress is also called the Critical Resolved Shear Stress or CRSS.