## 1. Slip Systems Concepts:

- a. Define a slip system in a crystalline material
- b. Why is it important?

## 2. Resolved shear stress calculation:

A single crystal of a BCC metal has a critical resolved shear stress of 18 MPa.  $\overline{W}$  hat is the yield stress of this crystal in the [110] direction if slip occurs in the (101)[11 $\overline{1}$ ] slip system?