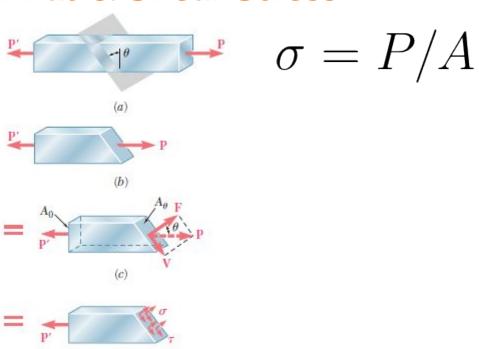
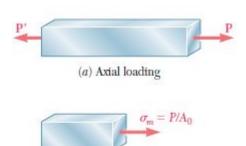
# Introduction to Stress Oblique plane and under general loading

Mechanics of Materials-Chapter 1——

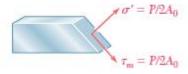
#### **Normal & Shear Stress**



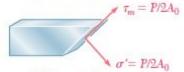
#### Maximum normal & shear Stress





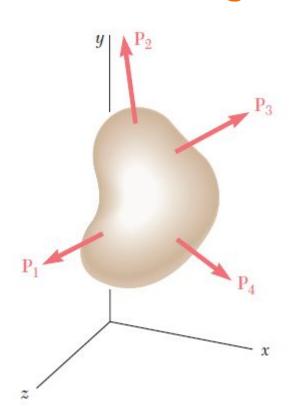


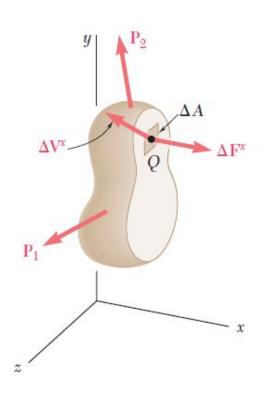
(c) Stresses for  $\theta = 45^{\circ}$ 

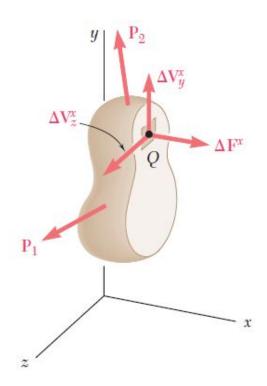


(d) Stresses for  $\theta = -45^{\circ}$ 

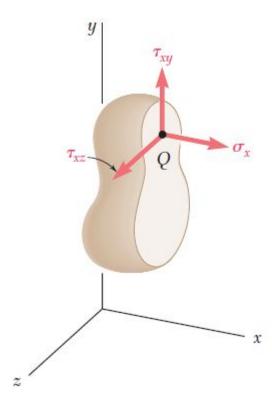
## **General Loading**

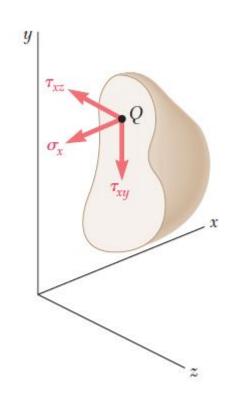




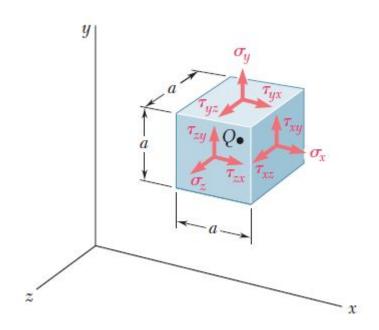


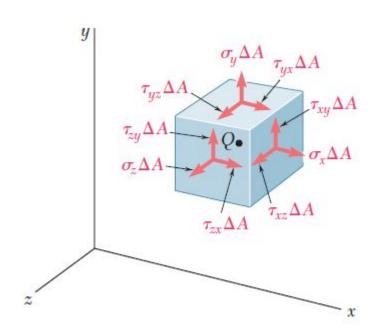
## **General loading**



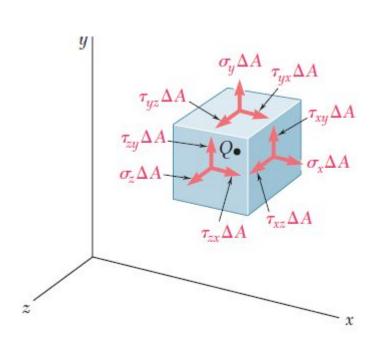


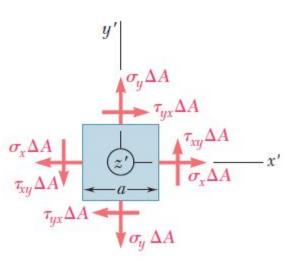
#### **Stress tensor**



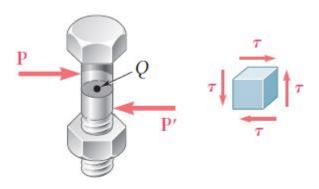


## **Stress tensor - Symmetry**





### Shear stress in a bolt



## **Concept of stress tensor is introduced**