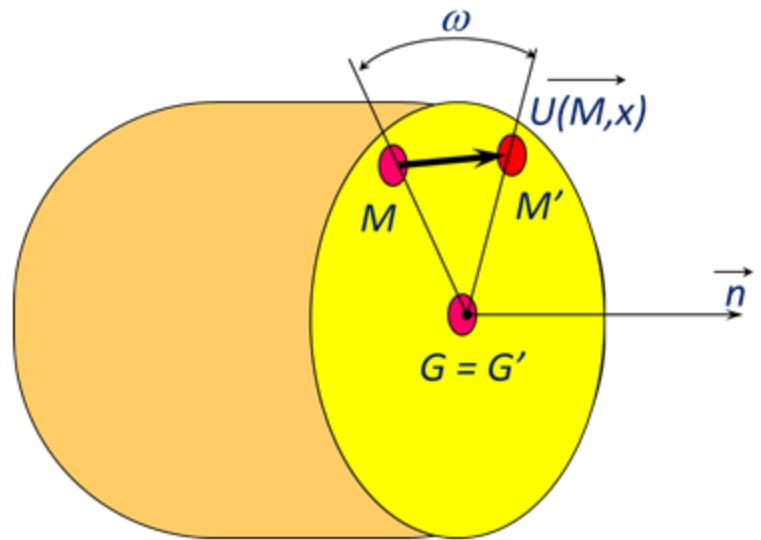
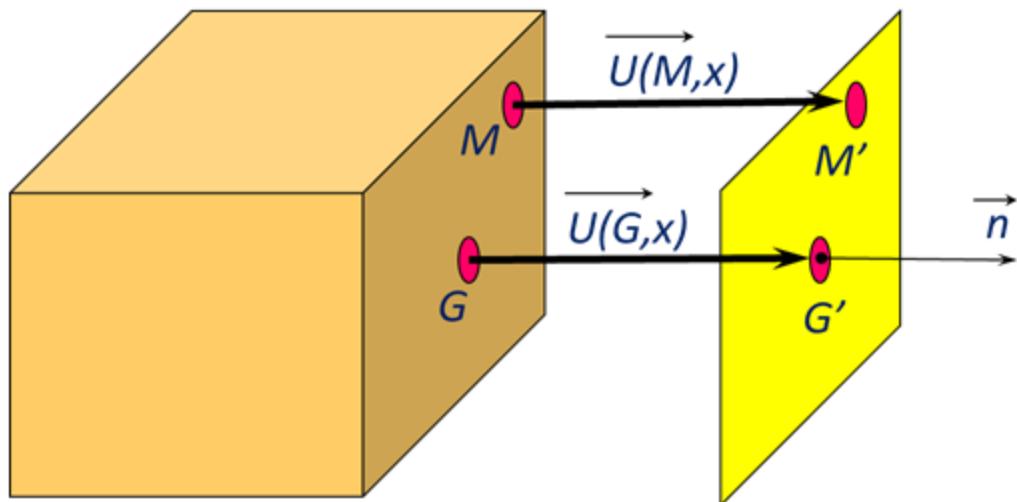
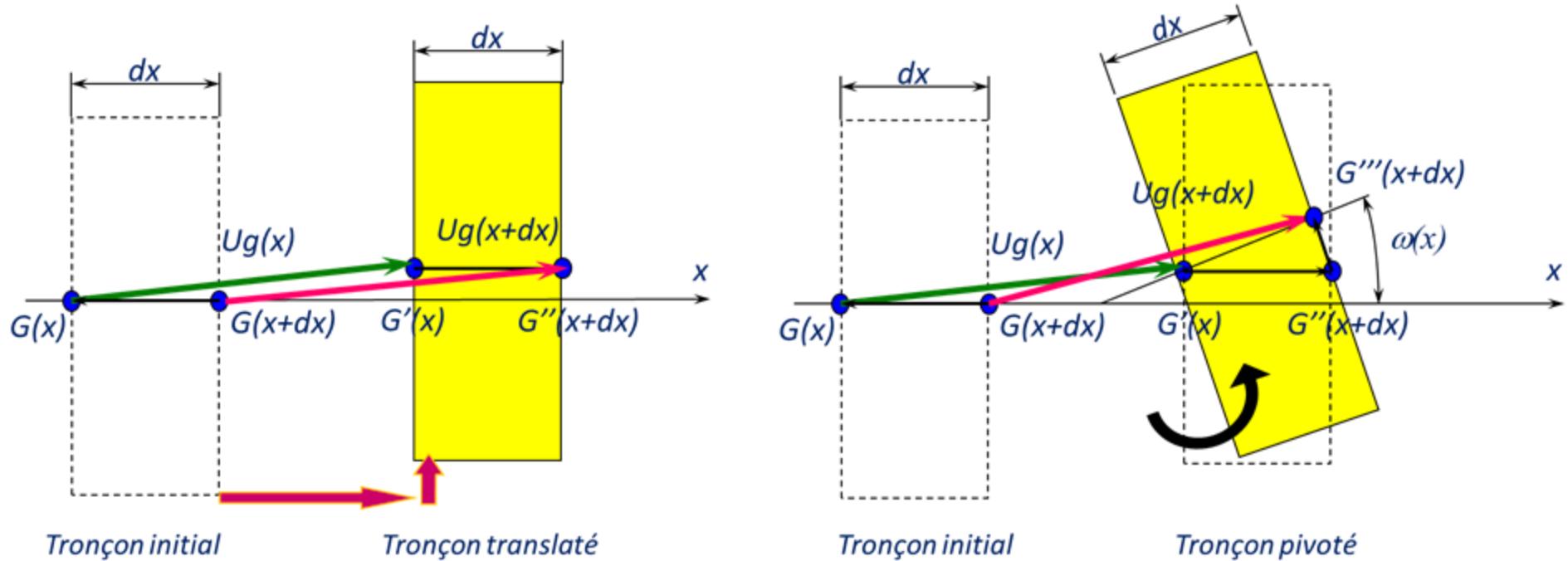
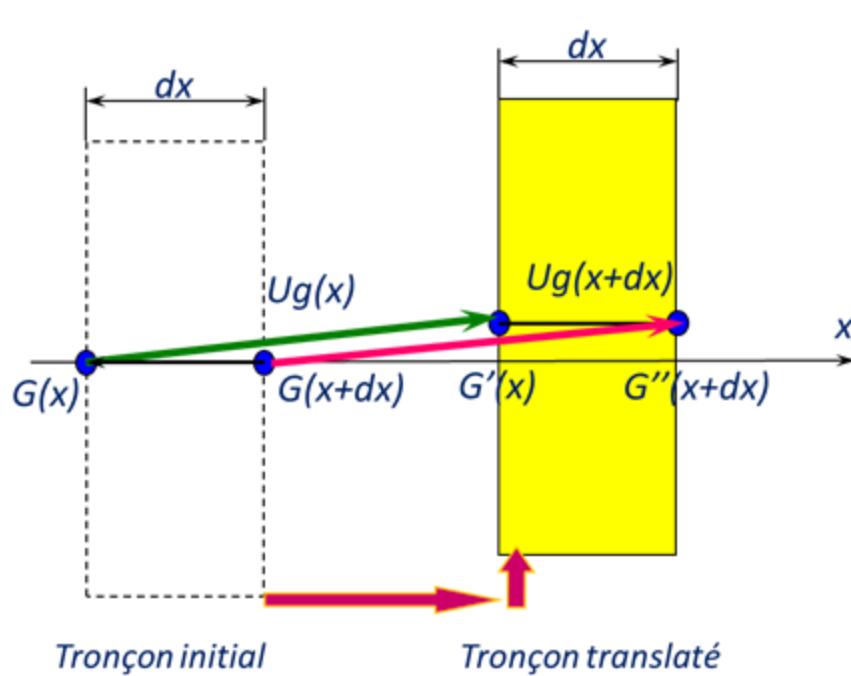


# Déplacement en bloc d'une section



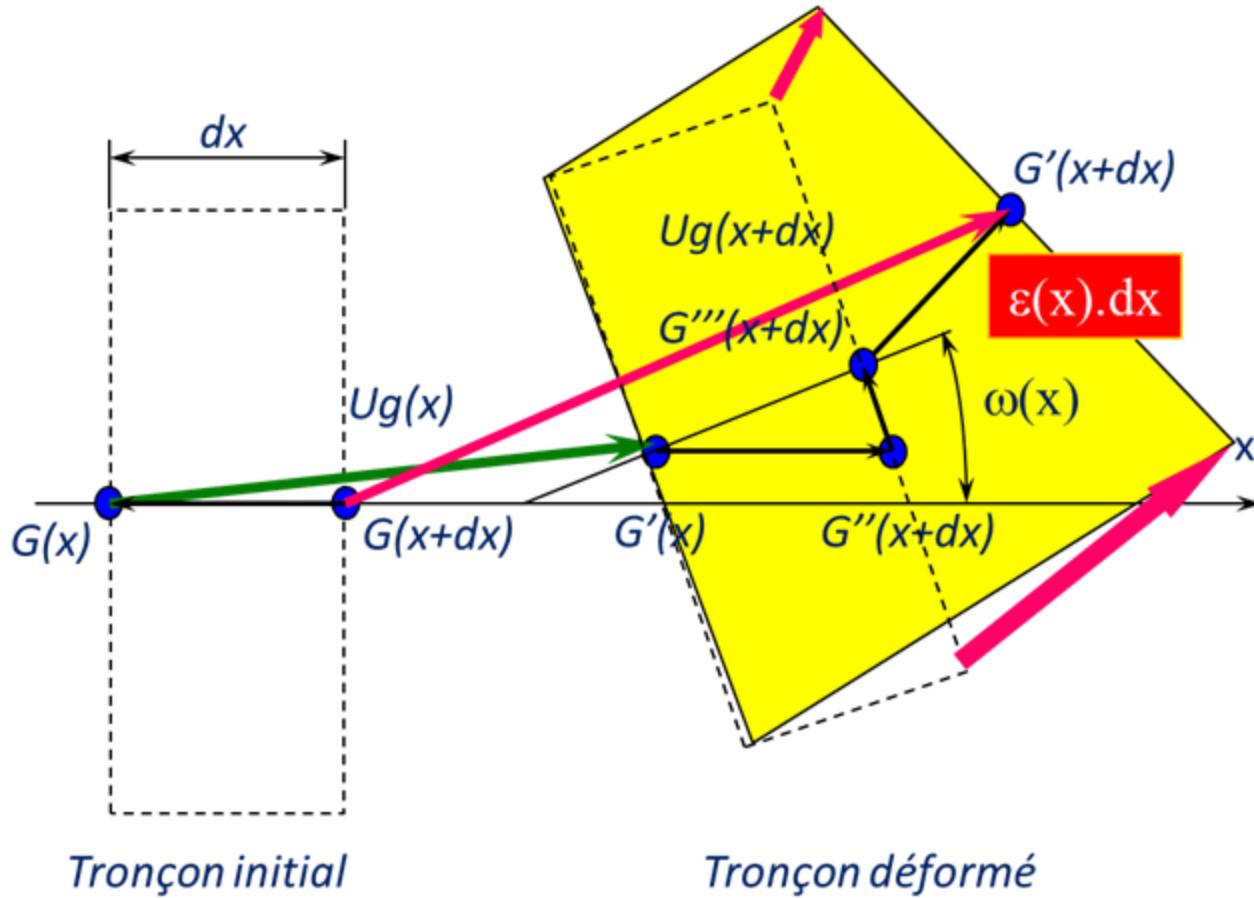
*Le déplacement «en bloc» d'une section droite résulte de la COMPOSITION d'une TRANSLATION avec une ROTATION*

# Déformation d'un tronçon



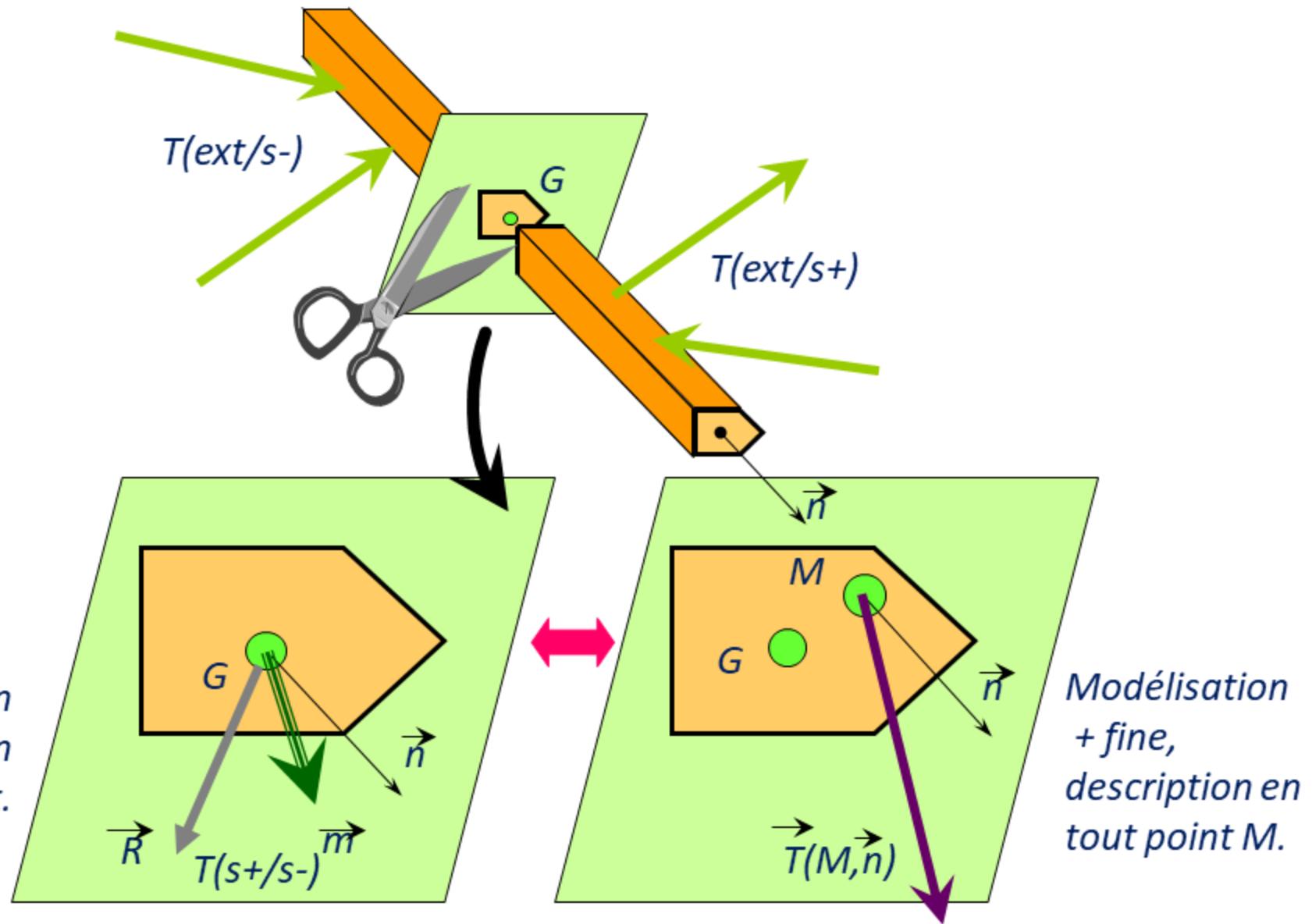
*Dans le cas du solide le tronçon n'est pas déformé.*

# Déformation d'un tronçon

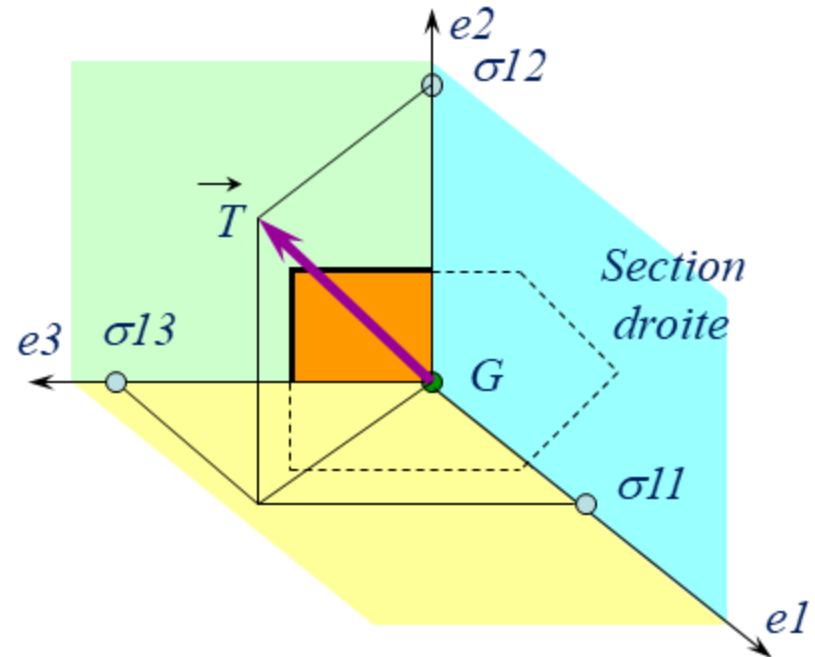
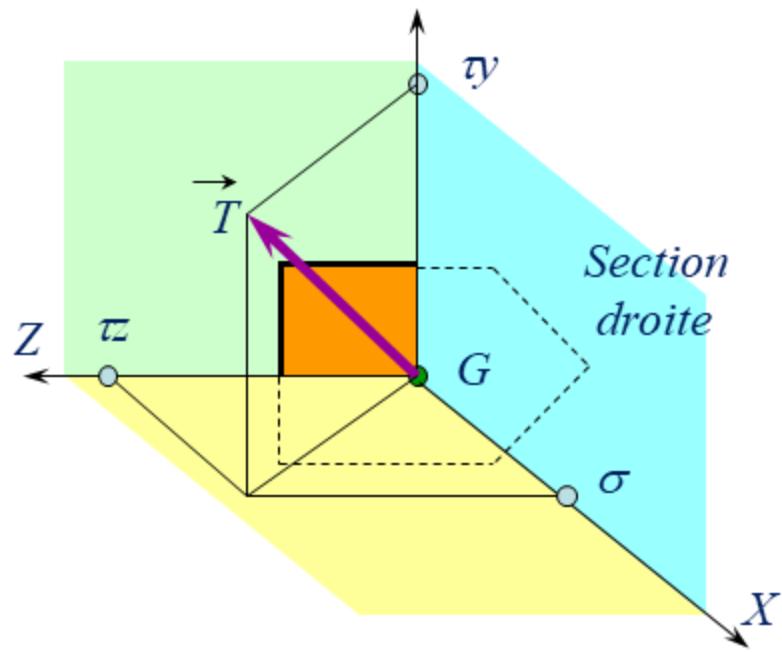


*Dans le cas du corps le tronçon subit une déformation  $\varepsilon(x) [\%]$*

# Le vecteur contrainte



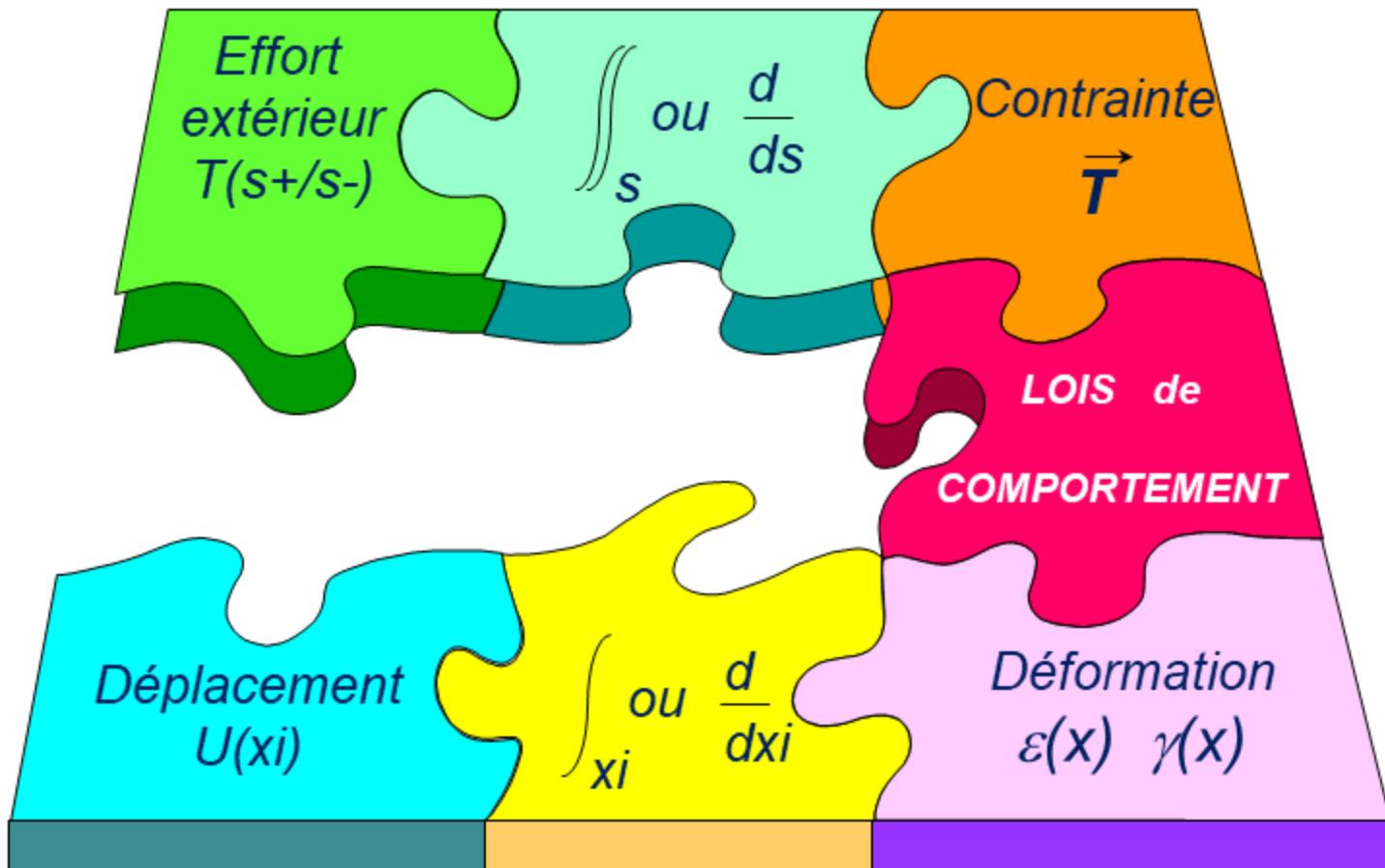
# Coordonnées de la contrainte



$$\begin{array}{c} \rightarrow \\ T \end{array} \left| \begin{array}{c} \sigma \\ \tau_y \\ \tau_z \end{array} \right.$$

$$\begin{array}{c} \rightarrow \\ T \end{array} \left| \begin{array}{c} \sigma_{11} \\ \sigma_{12} \\ \sigma_{13} \end{array} \right.$$

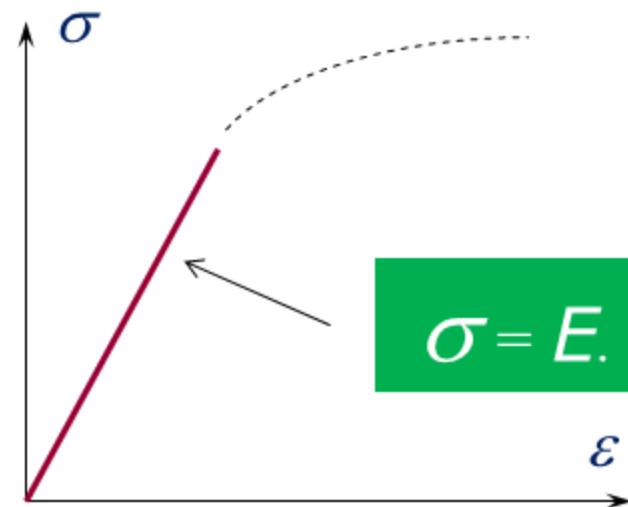
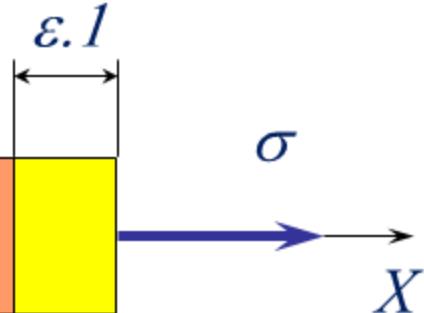
# La pièce manquante



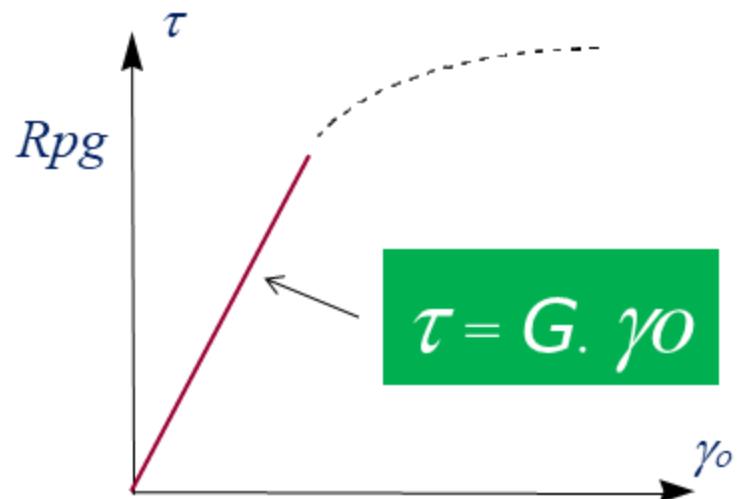
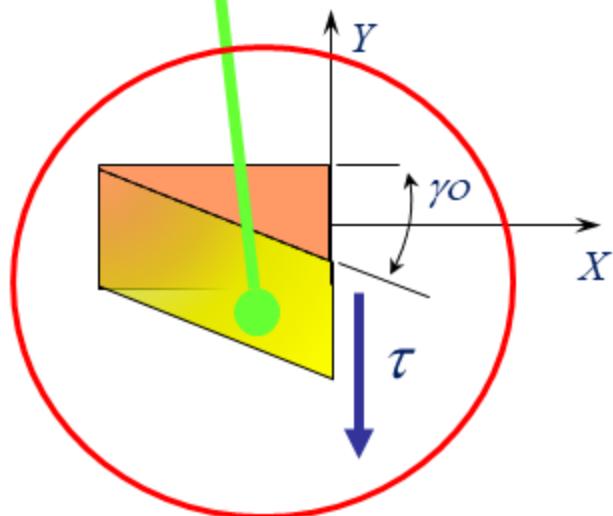
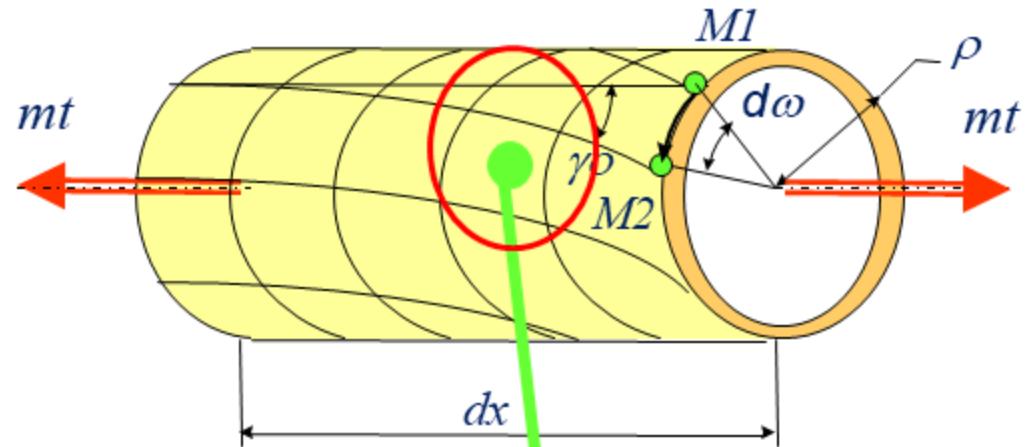
# Loi de Hooke



poutre de  
longueur unité



# Loi de COULOMB



# Équations d'équilibre

