

Le cisaillement

P9-12 – Chapitre 4

I. Définition

$$\vec{C}(M, \vec{n}) = \tau \vec{t} \quad \{\mathcal{T}_{coh}\} = \begin{pmatrix} 0 & 0 \\ T_y & 0 \\ T_z & 0 \end{pmatrix}_G \quad \boxed{T = \int_S \tau dS} \quad \boxed{\tau = \frac{T}{S}}_{\text{si } \tau \text{ uniforme}}$$

II. Loi de comportement

$$\tau = G\gamma \quad \gamma = \frac{dy}{dx} \quad G = \frac{E}{2(1 + \nu)}$$