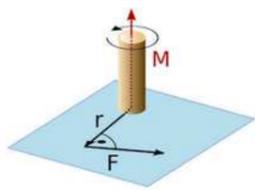




SCIENCES DE L'INGENIEUR

Formulaire – Modélisation des efforts

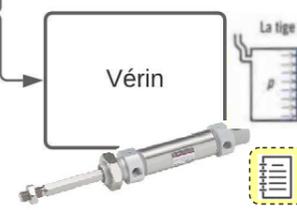
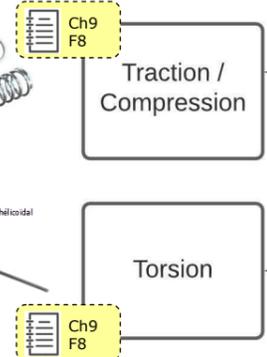


Force (N) \rightarrow $F = k \cdot x$ \leftarrow Allongement (mm)

Raideur (N.mm⁻¹)

Couple (N.m) \rightarrow $C = k \cdot \alpha$ \leftarrow Angle de déformation (rad)

Raideur (N.m.rad⁻¹)



$C = K \cdot I$

Intensité (A)

Constante de couple (N.m.A⁻¹)

Couple (N.m)

$F = p \cdot S$

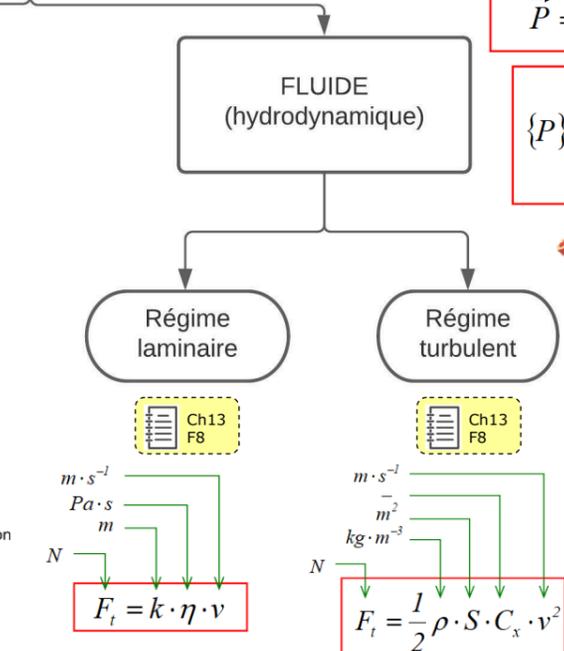
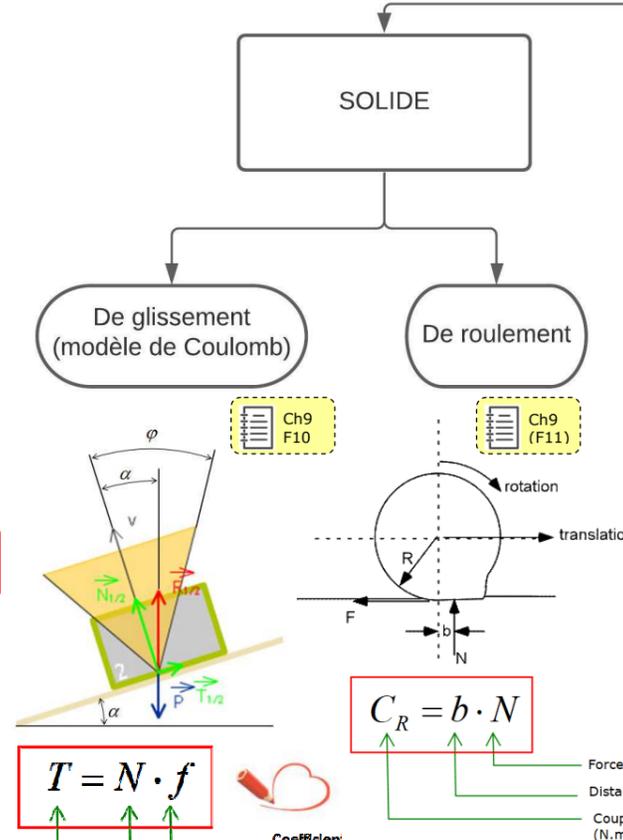
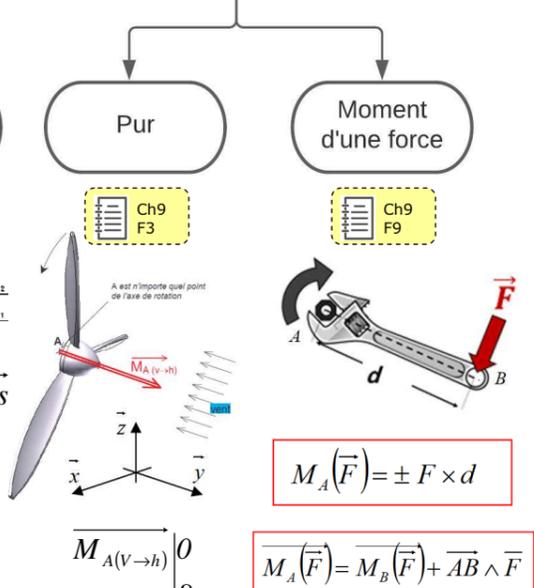
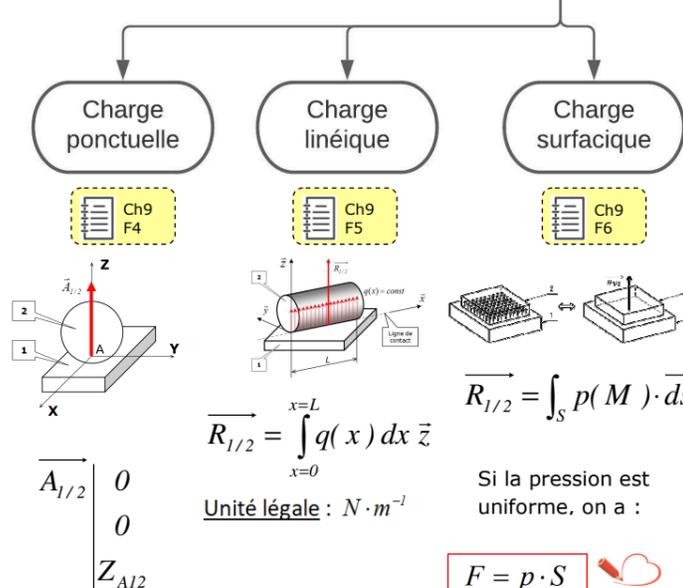
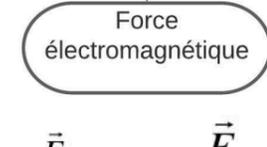
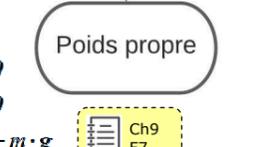
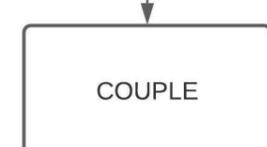
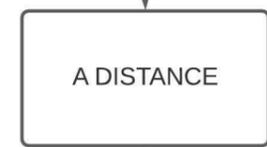
Force (N)

Surface (m²)

Pression (Pa)

Unité légale : N · m⁻², Pa avec 1 Pa = 1 N · m⁻²

Unité pratique : MPa, bar avec 1 bar = 10⁵ Pa



Unité légale : N