

EFFECT OF THE REDUCED VELOCITY

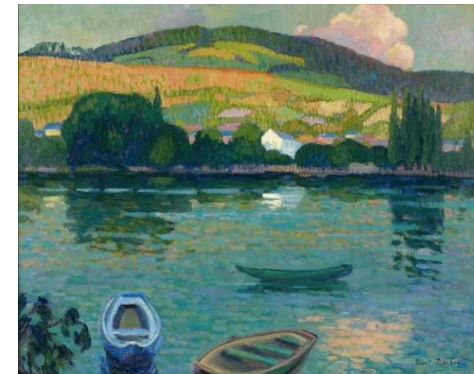
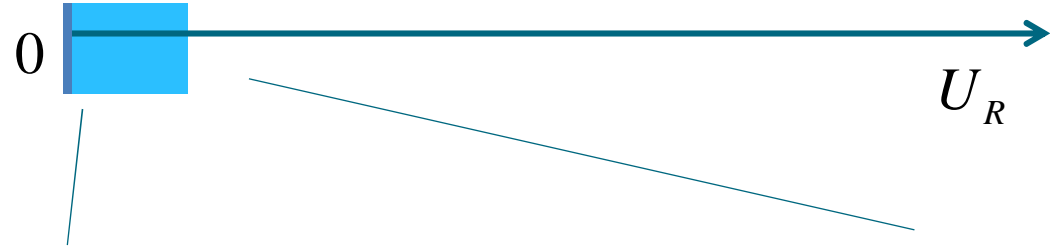


$$U_R = \frac{T_{\text{SOLID}}}{T_{\text{FLUID}}} = \frac{U_0}{c}$$



SMALL REDUCED VELOCITY

$$U_R = \frac{T_{\text{SOLID}}}{T_{\text{FLUID}}} = \frac{U_0}{c} \ll 1$$



SMALL REDUCED VELOCITY

Solid

T_{SOLID}



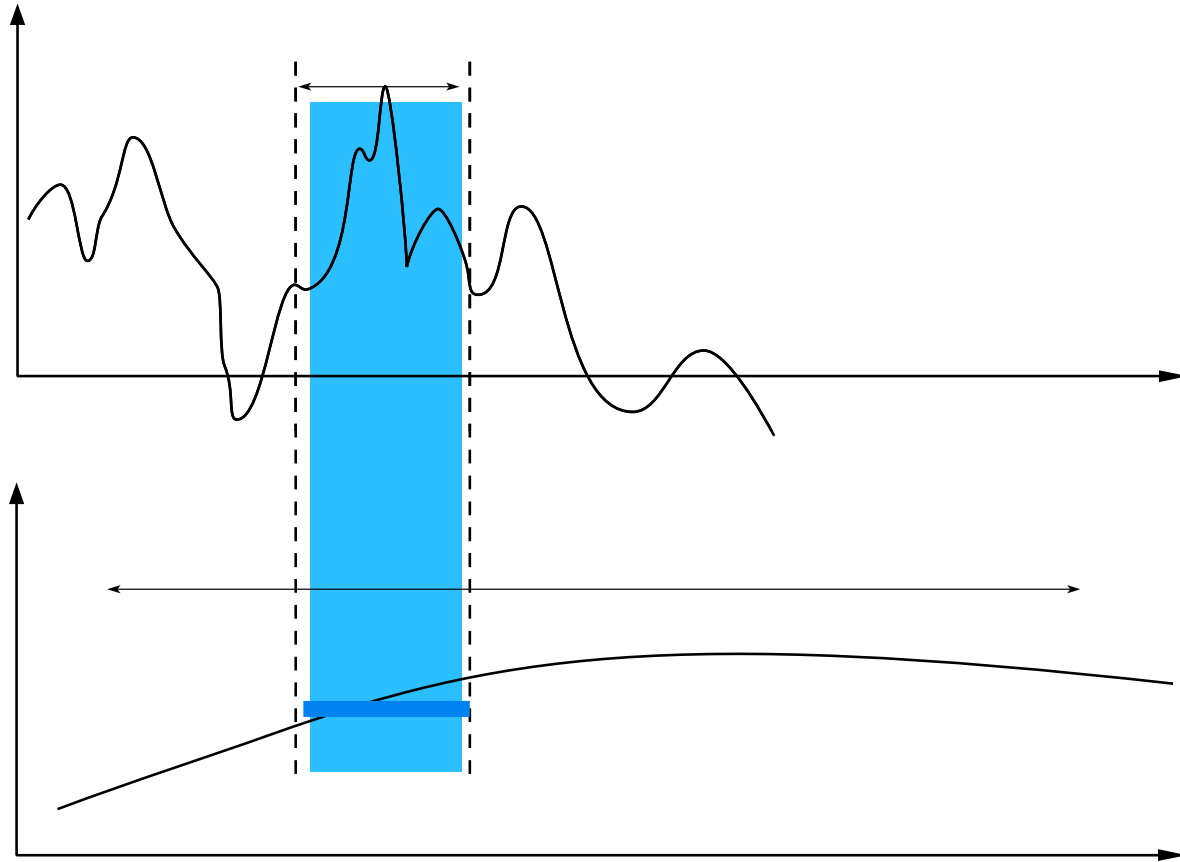
time

Fluid

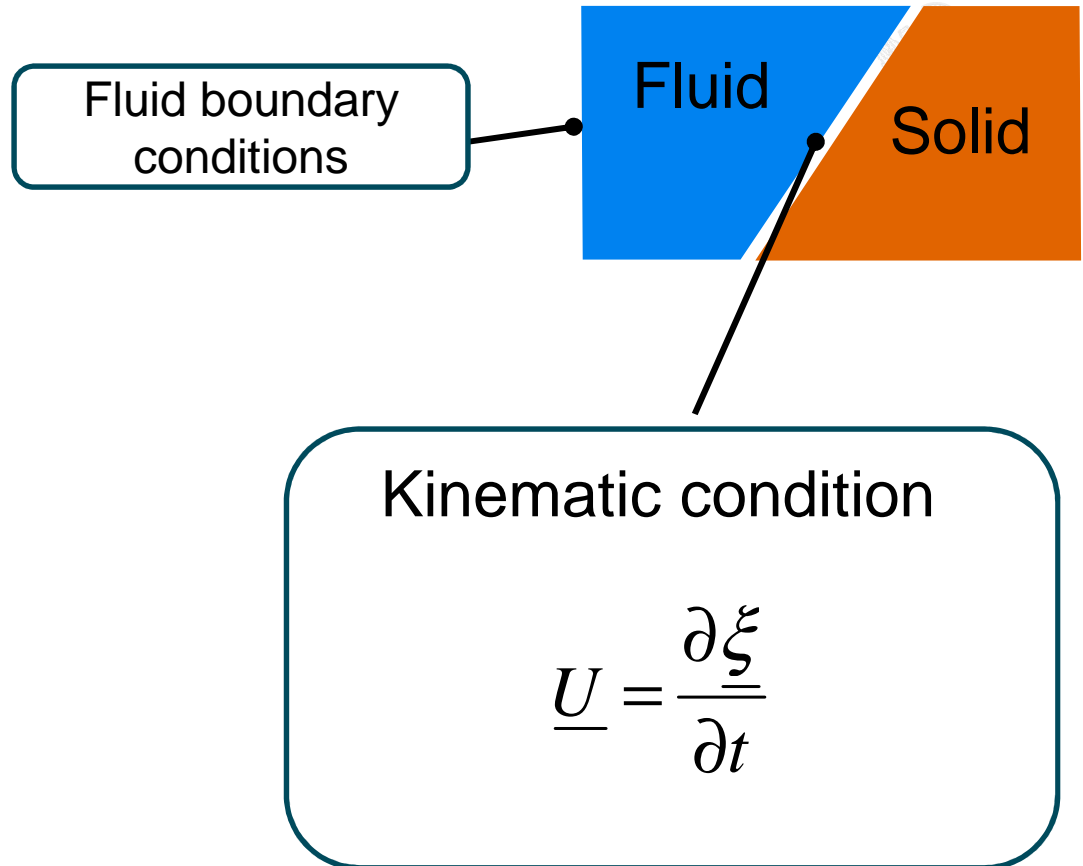
T_{FLUID}

time

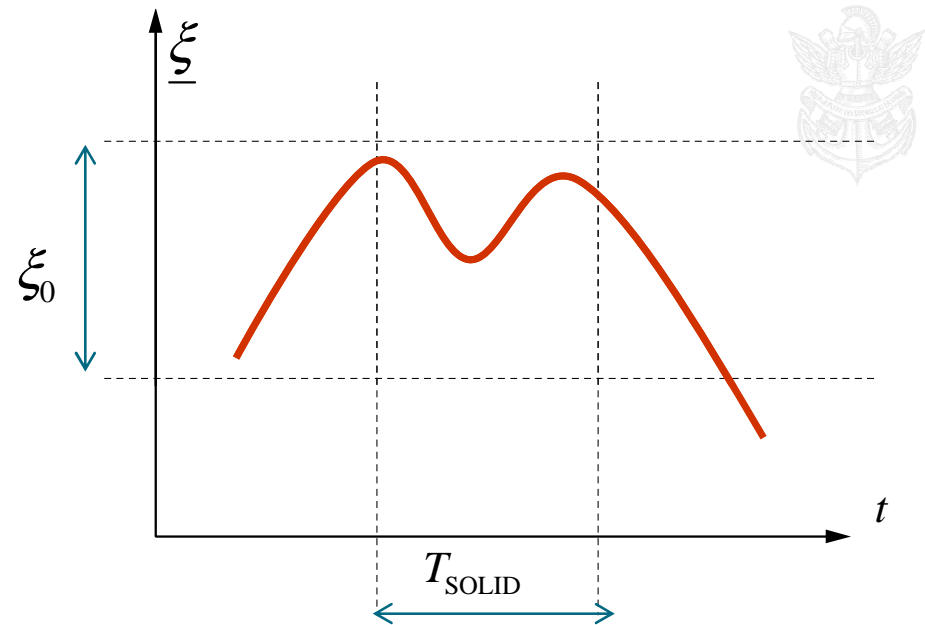
PRENDRE LES COURBES DANS LA DIAPO D'APRES
Et le mettre à l'échelle



BOUNDARY CONDITIONS ON THE FLUID DOMAIN

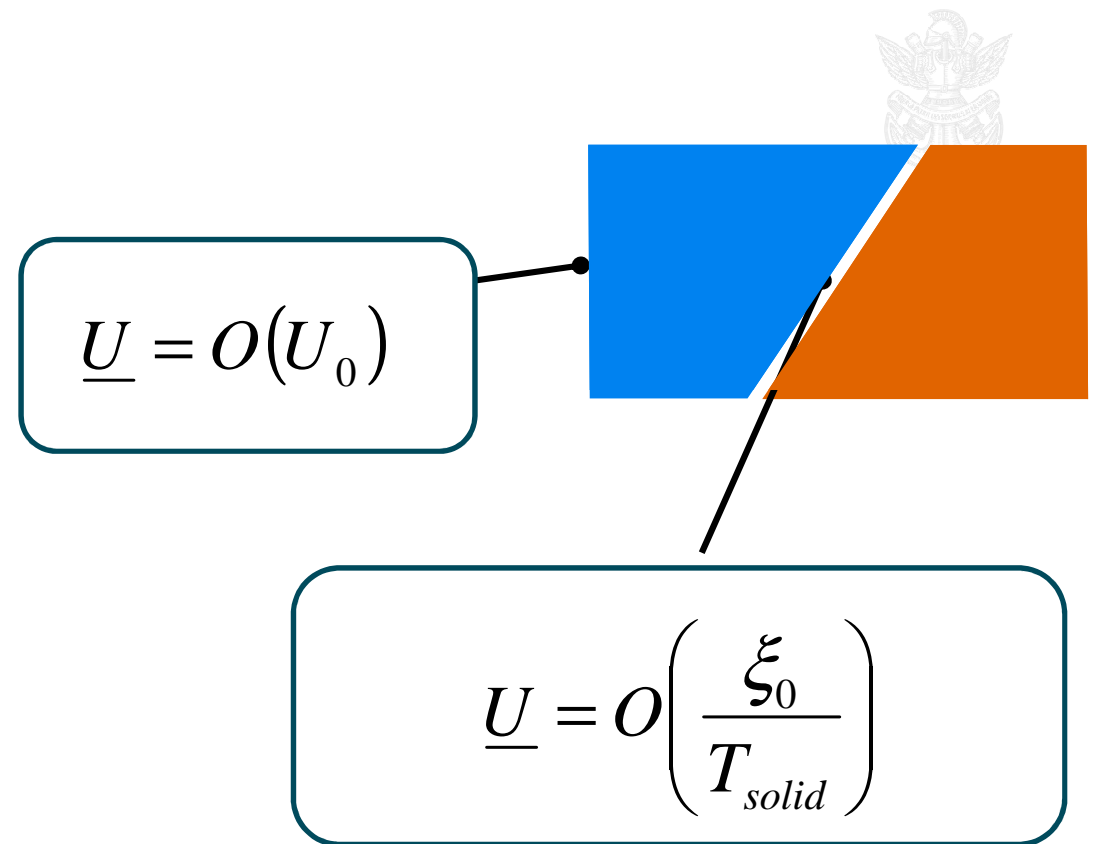


BOUNDARY CONDITIONS ON THE FLUID DOMAIN



$$\underline{U} = \frac{\partial \underline{\xi}}{\partial t} = O\left(\frac{\xi_0}{T_{\text{solid}}}\right)$$

BOUNDARY CONDITIONS ON THE FLUID DOMAIN



SMALL REDUCED VELOCITY

$$U_0 \ll \frac{\xi_0}{T_{solid}}$$

$$\underline{U} \neq \theta(U_0)$$



$$\underline{U} = O\left(\frac{\xi_0}{T_{solid}}\right)$$

SMALL REDUCED VELOCITY

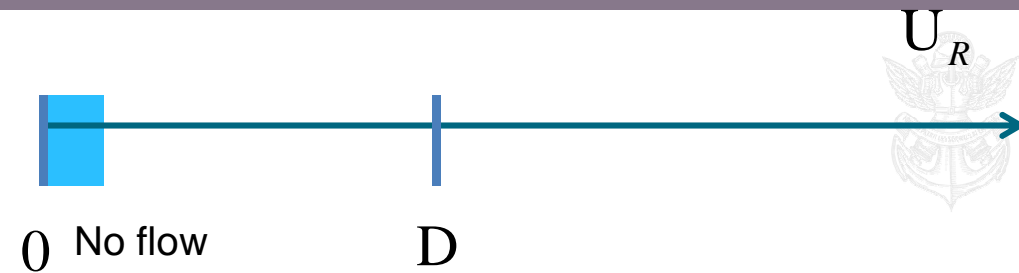
$$U_0 \ll \frac{\xi_0}{T_{solid}}$$

$$\frac{U_0 T_{solid}}{L} \ll \frac{\xi_0}{L}$$

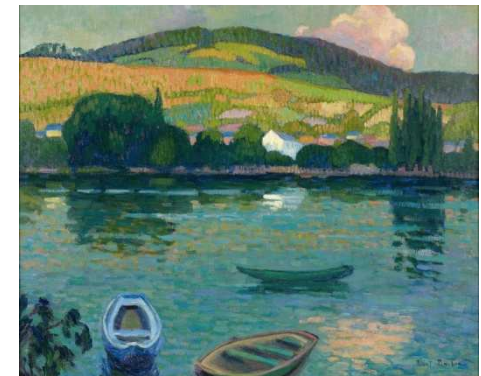
$$U_R \ll D$$



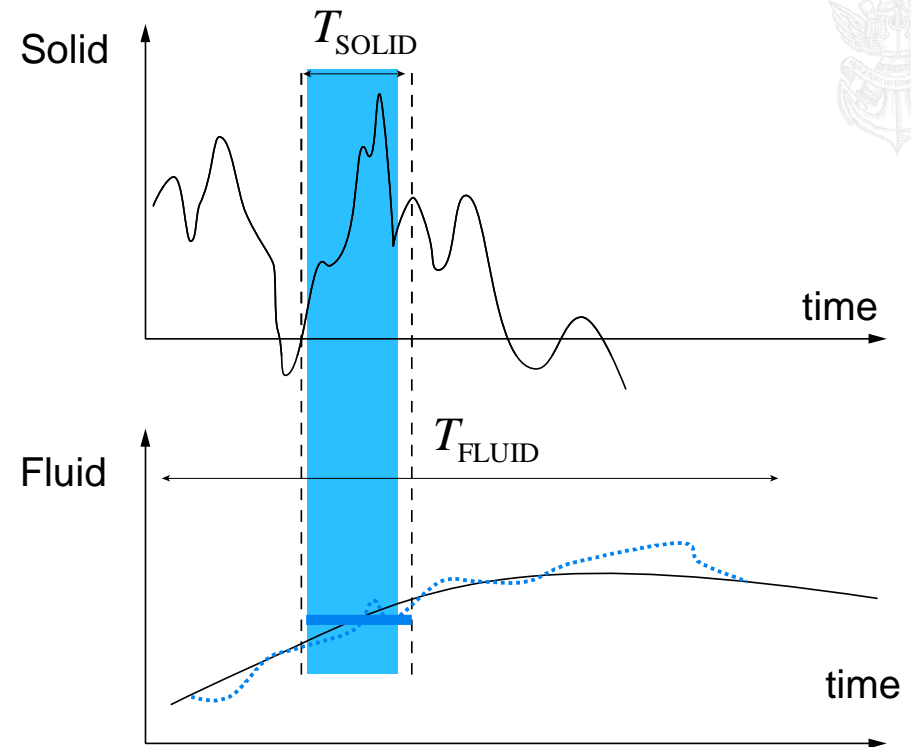
SMALL REDUCED VELOCITY



$$U_R \ll D$$

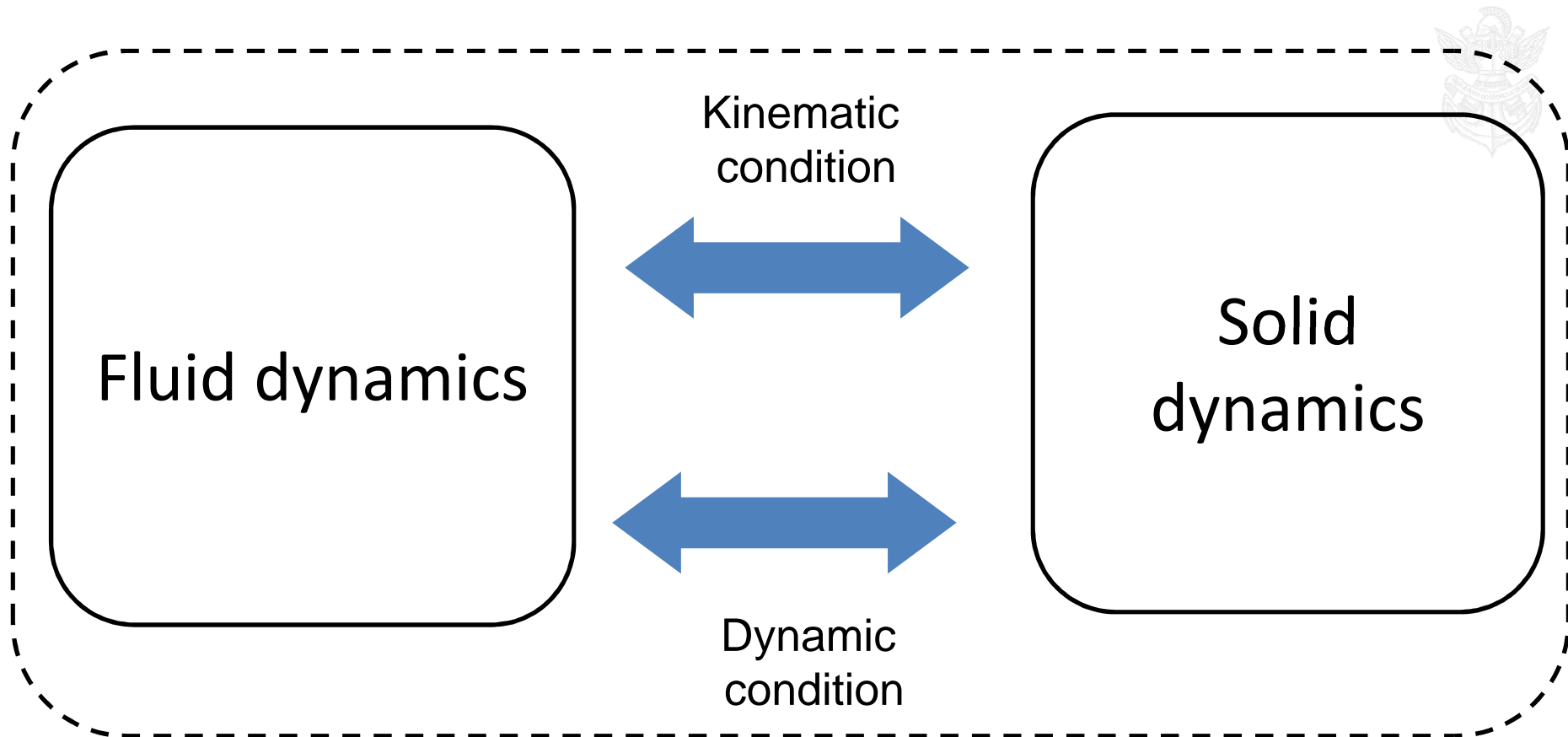


SMALL REDUCED VELOCITY



APPARENTLY STILL FLUID

GENERAL CASE



COUPLING WITH A STILL FLUID

