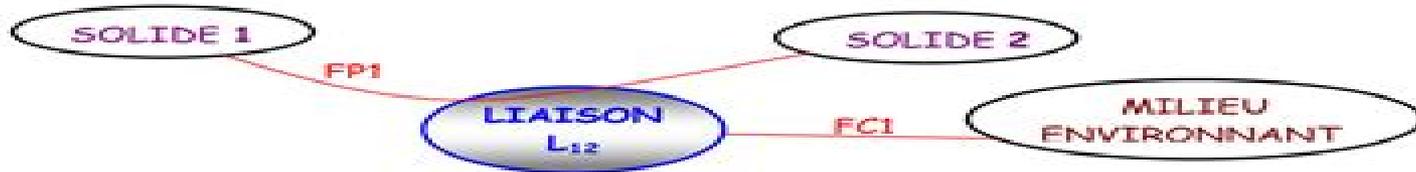


## Chapitre 7. *Guidage en Rotation*

### I/- Mise en situation :

-Le diagramme pieuvre s'énonce pour la modélisation comme suit :



-La liaison  $L_{12}$  doit permettre :

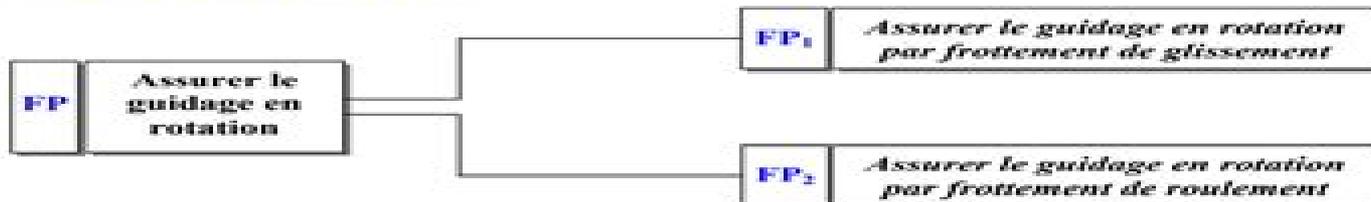
- **FP1** : assurer un guidage en rotation du solide 1 par rapport au solide 2.
- **FC1** : s'adapter au milieu environnant :
  - ⊗ Encombrement.
  - ⊗ Coût.
  - ⊗ Condition de fonctionnement.

### II/- Identification de la liaison pivot :

#### II-1/- Schématisation et Modélisation :

Sémantisation	Torseur cinématique	Torseur statique
	$\left\{ \mathbf{V}_{1/2} \right\}_O = \left\{ \begin{array}{c c} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} \right\}_O$ <p><i>O est le centre de la liaison</i></p>	$\left\{ \boldsymbol{\tau}_{1/2} \right\}_O = \left\{ \begin{array}{c c} X & 0 \\ Y & M \\ Z & N \end{array} \right\}_O$

#### II-2/- Diagramme FAST :



### III/- Guidage en rotation par frottement de glissement

#### III-1/- Définition :

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**R Sandford**



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