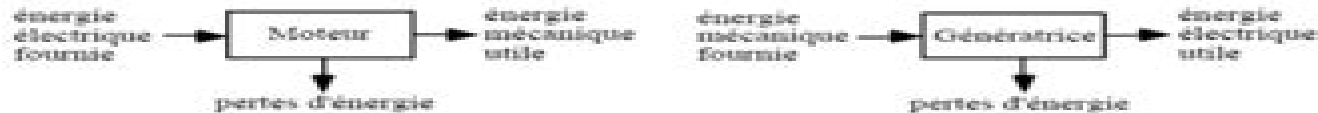


# La machine à courant continu

## 1. INTRODUCTION :

Les machines électriques tournantes sont des **convertisseurs d'énergie**. Lorsqu'elles transforment de l'énergie électrique en énergie mécanique, on dit qu'elles fonctionnent en **moteur**. En revanche, si elles transforment l'énergie mécanique apportée par une autre machine en énergie électrique, on dit qu'elles fonctionnent en **génératrice**.



## 2. PRINCIPES PHYSIQUES GENERAUX

### 2.1. Création d'une force électromotrice induite

Dans un repère, un conducteur de longueur  $L$  est en mouvement à vitesse constante  $V$  dans un champ uniforme et orthogonal au plan de mouvement du conducteur (Figure 1).

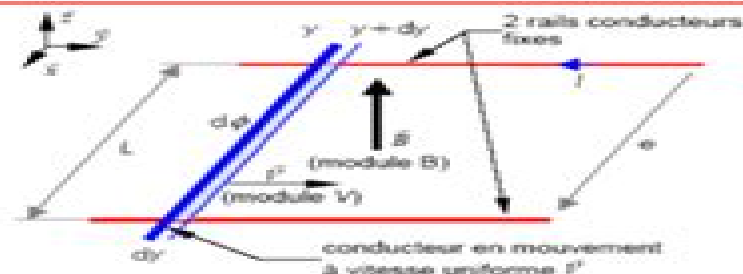


Figure 1 : barre en translation dans le champ  $B$ .

Entre  $t$  et  $t+dt$ , la barre parcourt la distance élémentaire  $dy = V \cdot dt$

Le flux coupé par le conducteur est alors :  $d\phi = B \cdot L \cdot dy$

En appliquant (en module) la loi de Faraday, on obtient l'expression de la f.é.m. induite :

$$e = \frac{d\phi}{dt} = B \cdot L \cdot V$$

**Remarque:** si l'induction ou la vitesse changent de sens, le sens du flux change et la f.é.m. change de signe.

### 2.2. Réversibilité du phénomène

Si le conducteur est maintenant parcouru par un courant constant  $I$ , la loi de Laplace  $d\vec{P} = I d\vec{x} \wedge \vec{B}$  donne l'effort élémentaire appliqué au conducteur :  $d\vec{P} = B \cdot I \cdot dx \cdot \vec{x} \wedge \vec{z}$

# La Machine Agrave Différences

**Didier Musso**



**La Machine Agrave Différences:**

## Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **La Machine Agrave Diffeacuterences**

In a global inundated with displays and the cacophony of instantaneous conversation, the profound power and psychological resonance of verbal artistry often disappear into obscurity, eclipsed by the continuous barrage of noise and distractions. However, situated within the musical pages of **La Machine Agrave Diffeacuterences**, a charming function of literary brilliance that pulses with organic emotions, lies an unique journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this enchanting opus courses viewers on an emotional odyssey, softly revealing the latent possible and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main styles, dissect their captivating publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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