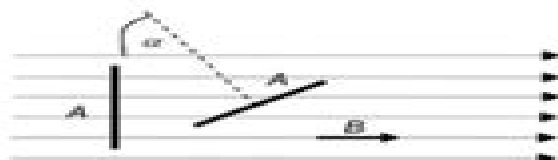


ELECTROMAGNETIC INDUCTION

1. Magnetic flux (Φ), non-stationary magnetic field

Magnetic flux is a new physical quantity needed to describe the CHANGES of the magnetic field (non-stationary magnetic field) related to a certain area. Sometimes even the field can in fact stay the same, but it changes if the area e.g. rotates in it.



when $A \perp \vec{B}$:

for any α :

for $\alpha = \omega t$:

(regularly rotating area)

$$\Phi = BA$$

$$\Phi = BA \cos \alpha$$

$$\Phi = BA \cos \omega t$$

$$[\Phi] = \text{T} \cdot \text{m}^2 = \text{Wb (weber)}$$

2. Phenomenon of electromagnetic induction



changes of the magnetic field $\Rightarrow$

induced electric field or voltage,
induced el. current flows if possible

(1831 Faraday in E, Henry in USA)

3. Faraday's law of electromagnetic induction

The rate of change of flux linkage or flux is directly proportional to the electromotive force induced

flux linkage = $N\Phi$ when the coil in the magnetic field has N loops(turns), the flux changes in each of them so that the voltage induced must be N -times bigger

$$U_i \propto \frac{d(N\Phi)}{dt}$$

$$U_i \propto \frac{N \Delta \Phi}{\Delta t} \quad \text{for regular changes of flux during } t$$

E.g. when the flux in a single-turn coil changes by 1Wb during 1s, the voltage induced is 1V.

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Jicheng Xie



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