

IV/ ELECTROMAGNETISME

الكهر ومغناطيسية

Le mot « magnétisme » dérive du nom de la région qui porte le nom de « magnésie », située sur la côte ouest de l'actuelle Turquie, où le phénomène magnétique a été observé depuis fort longtemps (600 avant J.C). Cette région renfermait des gisements du minerai appelé « magnétite » qui a des propriétés spécifiques.

En effet, on a observé que deux morceaux de ce minerai s'attirent ou se repoussent, comme ils peuvent donner leurs propriétés à un morceau de fer se trouvant proche d'eux.

Ce phénomène magnétique est resté sans explication jusqu'en l'an 1819. En cette année, le physicien suédois Hans Christian Oersted (1777-1851), a remarqué que le passage d'un courant électrique dans un fil situé tout près d'une aiguille aimantée provoque sa déviation, ce qui prouve l'existence d'une force magnétique résultant du passage du courant électrique. Cette expérience a prouvé qu'un fil parcouru par un courant électrique acquiert des propriétés magnétiques tout à fait semblables à celles que possèdent un aimant naturel.

En temps contemporain, il a été convenu que tous les phénomènes magnétiques sont dus à deux causes :

- Le mouvement de charges électriques (courant électrique)
- Quelques propriétés intrinsèques de la matière.

A/ Le champ magnétique (الحقل المغناطيسي)

1/ Définition du champ magnétique

Un champ magnétique existe dans une région voisine :

- D'un aimant naturel ou artificiel,
- De la terre, que l'on considère comme étant un énorme aimant,
- D'un conducteur parcouru par un courant électrique.

Par comparaison avec le champ électrique, une charge ou un ensemble de charges en mouvement, créent dans la région où elles se trouvent un champ magnétique. Ce champ magnétique agit sur une charge électrique externe q avec une force \vec{F}_B . Il en est de même pour un courant électrique, puisque par définition, c'est un mouvement de charges.

Comme le champ électrique \vec{E} , le champ magnétique est lui aussi une grandeur vectorielle, on le note par le vecteur \vec{B} . Son nom complet est : **champ d'induction magnétique** (حقل التحريض المغناطيسي).

2/ Superposition de champs magnétiques (مبدأ تركيب الحقول المغناطيسية) :

Si plusieurs champs magnétiques $\vec{B}_1, \vec{B}_2, \dots, \vec{B}_n$ agissent simultanément sur une charge électrique en mouvement, ou sur une aiguille aimantée, le champ magnétique \vec{B} équivalent, est égal à la somme vectorielle de tous les champs agissant (figure 4.1) :

$$\vec{B} = \vec{B}_1 + \vec{B}_2 + \dots + \vec{B}_n$$

Compatibilite Electromagn

Katrin Zwirgmaier



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