

# TUTORAT UE3 2011-2012 – Physique Fiche Optique et Structure de la Matière

Préparée par l'ATM<sup>®</sup>

## I-Ondes :

- Onde Progressive (OP):**
  - propagation dans un milieu infini d'une perturbation d'une ou plusieurs des caractéristiques physiques du milieu.
  - $P$  sinusoidale = OP dont la source génère une perturbation dont l'intensité varie sinusoidalement.
  - ( $A$ = amplitude ;  $\omega$ = pulsation propre en rad.s<sup>-1</sup> ;  $f$ =  $\omega / 2\pi$  = fréquence en Hz ;  $T = 1/f$  = période en s).
  - Toute onde périodique non pure est une somme d'ondes périodiques sinusoidales.
- Modélisation :**
  - Perturbation de la grandeur physique =  $E(x,t) = A \cdot \sin(\omega \cdot (t - x/c)) = A \cdot \sin(\omega \cdot t - k \cdot x)$
  - Phase =  $\phi = (\omega \cdot x/c) = (2\pi \cdot x/c)/\lambda$
  - Longeur d'onde =  $\lambda = cT = c/f = (2\pi \cdot c)/\omega$
  - Puissance surfacique =  $I = P/(4\pi \cdot r^2)$  = puissance / surface d'onde (puissance propre à la source ≠ puissance surfacique qui ↗ lorsqu'on s'éloigne de la source) → l'intensité d'une irradiation est inversement proportionnelle au carré de la distance qui sépare la source d'un sujet irradié.
- Onde stationnaire**
  - Le milieu est limité et l'onde est confinée dans un espace de dimension D multiple de  $\lambda/2$  → D est quantifiée.
  - La perturbation, qui est la somme de la perturbation induite et la perturbation réfléchie, est nulle à tout instant.
- NB :** Dans le cas de l'onde d'un électron sur son orbitale, le milieu est de dimension D multiple de  $\lambda$  (et non  $\lambda/2$ ).
- $E(x,t) = -2 \cdot A \cdot \sin(\phi) \cdot \cos(\omega \cdot t) = -2 \cdot A \cdot \sin((2\pi \cdot x)/\lambda) \cdot \cos(\omega \cdot t)$
- Diffraction et interférences :**
  - Lorsque une onde plane progressive traverse un orifice dont les dimensions sont de l'ordre de sa  $\lambda$ , il se forme des ondes sphériques! → c'est le phénomène de diffraction.
  - 2OPs de même  $\lambda$  sont cohérentes si leur différence de phase reste constante en tout point.
  - On observe lorsqu'on diffracte une onde par une fente de largeur  $b$  qu'il se forme sur un écran à distance de la fente une série de bandes éclairées, parallèle à la fente et de largeur  $2\lambda/b$  → phénomène d'interférences.



## II-Physique quantique :

- Hypothèses et conséquences :**
  - Hypothèse de base :**
    - Le comportement de toute grandeur physique peut être modélisé de deux façons complémentaires : une modélisation ondulatoire (k) et une modélisation corpusculaire (p).

**Relation de Brégoli** :  $\lambda = h/p$   
(ex de l'électron :  $p = mv = \sqrt{(2 \cdot e \cdot m \cdot U)}$ )

# Optique Et Structure De La Matiere

**Daniela Niemeyer**

## Optique Et Structure De La Matiere:

**La structure de la matière, de l'énergie, et de l'espace physique** P. Drosne,1922    *La structure de la matière*  
Instituts Solvay. Conseil de physique,1921    Optique et structure de la matière, en résumé Jules Marcoux,1981\*

Bulletin signalétique 160: Structure de la matière I - Physique de l'état condensé, physique atomique et moléculaire, spectroscopie ,1970    Optique et structure de la matière : physique 302 André Arès,Jules Marcoux,1978    Matériaux - Physico-chimie des matériaux métalliques - Propriétés, traitements - Niveau B Nathalie Siredey-Schwaller,2019-05-21 Cet ouvrage développe l'intention des chercheurs métallurgistes de comprendre les propriétés d'un matériau pour faire comprendre les différents aspects du travail métallurgique et donner des pistes pour modifier ces propriétés en fonction du cahier des charges souhaité. Sont d'abord décrites les propriétés intéressantes pour l'emploi du matériau et sont expliquées succinctement leur provenance. Puis sont présentées les différentes méthodes et leur constitution assemblage de grains, assemblage de phases, arrangement des atomes. L'évolution naturelle plus ou moins rapide du matériau vers un état d'équilibre en fonction des conditions extérieures essentiellement la température est alors analysée. Sont notamment précisées les défauts qui influent sur cette évolution et les mécanismes qui l'accompagnent : mouvement des atomes, diffusion, mouvement des dislocations, mouvement des precipités, coalescence, transformations de phase. Enfin, en application pratique, des différentes notions sont présentées et compte tenu du grand nombre de paramètres et de la variété des matériaux, des pistes de recherche sont proposées pour guider le métallurgiste dans son action de contrôle et d'évolution du matériau.

**Bulletin signalétique 161: Structure de la matière II - Cristallographie** ,1970    **Bulletin signalétique** ,1957    **Optique et structure de la matière ; solutionnaire** André Arès,Jules Marcoux,1974    **La physique théorique nouvelle** Julien Pacotte,1921

Proceedings of the Fourth International Congress for Logic, Methodology and Philosophy of Science, Bucharest, 1971 Lev D. Beklemishev,2000-04-01 Proceedings of the Fourth International Congress for Logic, Methodology and Philosophy of Science, Bucharest 1971    **Revue d'optique théorique et instrumentale** ,1923    **Bulletin analytique** ,1960    **La constitution morphologique de la matière vivante d'après l'enseignement de J. Kunstler** Joseph Kunstler,1917

**Canadiana** ,1989    **BAR International Series** ,1978    **Précis d'optique publié d'après l'ouvrage de Paul Drude: Optique géométrique. Optique ondulatoire.** 1911. x. 315. [1] p Paul Drude,1911    **Annales de Chimie--science Des Matériaux** ,1998    **Les nouveaux horizons de la science: La matière vivante; sa chimie, sa morphologie** Hyacinthe Guilleminot,1914    *Bulletin signalétique* Centre national de la recherche scientifique (France). Centre de documentation,1967

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web this timeline involves the displacement and exchange of the late 1990s mining town of grantville west virginia with a piece of 1630s early modern southern germany in thuringia although 1632 was written as a stand alone novel in 2000 flint had planned several other universes using the assiti shards story premise

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