

TUTORAT UE3 2011-2012 – Physique

Fiche Optique et Structure de la Matière

Préparée par l'ATMP

I-Ondes :

- Onde Progressive (OP):
=propagation dans un milieu infini d'une perturbation d'une ou plusieurs des caractéristiques physiques du milieu.
➢ P sinusoïdale = OP dont la source génère une perturbation dont l'intensité varie sinusoïdalement.
(A= amplitude ; ω = pulsation propre en rad.s^{-1} ; $f = \omega / 2\pi$ = fréquence en Hz ; $T = 1 / f$ = période en s).
➢ Toute onde périodique non pure est une somme d'ondes périodiques sinusoïdales.
 - 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 = $\phi = (\omega \cdot x)/c = (2\pi \cdot x)/\lambda$
➢ Longueur 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 réfléchiée, 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 λ (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 λ , il se forme des ondes sphériques! → c'est le phénomène de diffraction.
➢ 2OPS de même λ 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.
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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 Broglie : $\lambda = h/p$
(ex de l'électron : $p = mv = \sqrt{2 \cdot e \cdot m \cdot U}$)

Optique Et Structure De La Matiere

**Instituts Solvay. Institut international
de physique. Conseil de Physique**



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. Institut international de physique. Conseil de Physique, 1921 *Bulletin signalétique 160: Structure de la matière I - Physique de l'état condensé, physique atomique et moléculaire, spectroscopie*, 1970 **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 Optique et structure de la matière, en résumé Jules Marcoux, 1981* Bulletin signalétique Centre national de la recherche scientifique (France), 1960 *Matériaux - Physico-chimie des matériaux métalliques - Propriétés, traitements - Niveau B* Nathalie Siredey-Schwaller, 2019-05-21 Cet ouvrage d'veloppe l'intention des l'ves ing nieurs m tallurgistes les ph nom nes qui conditionnent les propri t s d usage d un m tal pour faire comprendre les diff rents aspects du travail m tallurgique et donner des pistes pour modifier ces propri t s en fonction du cahier des charges souhait Sont d abord d crites les propri t s int ressantes pour l emploi du m tal et sont expliqu es succinctement leur provenance Puis sont pr sent s les diff rents m taux et leur constitution assemblage de grains assemblage de phases arrangement des atomes L volution naturelle plus ou moins rapide du m tal vers un tat d quilibre en fonction des conditions ext rieures essentiellement la temp rature est alors analys e Sont notamment pr cis s les d fauts qui influent sur cette volution et les m canismes qui l accompagnent mouvement des atomes diffusion mouvement des dislocations mouvement des pr cipit s coalescence transformations de phase Enfin en application pratique des diff rentes notions pr sent es et compte tenu du grand nombre de param tres et de la vari t des m taux des pistes de r flexion sont pr sent es pour guider le m tallurgiste dans son action de contr le et d volution du m tal **Bulletin signalétique**, 1963 *Canadiana*, 1989 **Optique (2)** Jean-Paul Mathieu, 1965-01-01T00:00:00+01:00 Cet ouvrage est une r dition num rique d un livre paru au XXe si cle d sormais indisponible dans son format d origine **Crystal Structure Analysis for Chemists and Biologists** Jenny P. Glusker, Mitchell Lewis, Miriam Rossi, 1996-12-17 The fields of structural chemistry and biochemistry have blossomed in the last seventy years since X ray diffraction was discovered in 1912 Dorothy Hodgkin who obtained a Nobel Prize in 1965 for her X ray diffraction work wrote a great advantage of X ray analysis as a method of chemical structure analysis is its power to show some totally unexpected and surprising structure with at the same time complete certainty The results of all X ray diffraction studies are used by chemists and buiochemists but these scientists need to be able to appreciate the significance and extent to which these results may be used A number of books written for practicing crystallographers cover the theory and applications of X ray diffraction but few are of real practical use to non specialists In Crystal Structure Analysis for Biologists and Chemists the general principles of crystal structure are presented in a highly readable way The book of Glusker who is internationally renowned provides good coverage of theory including data and understanding their

significance *Electrodynamique et optique quantiques* François A. Reuse, 2007-01-01 *Bulletin signalétique 161: Structure de la matière II - Cristallographie*, 1970 *Fibre optique et réseaux très haut débit* Éric Gangloff, 2022-11-15 Ce livre présente les réseaux optiques très haut débit dans leur diversité. Chaque réseau est abordé dans sa spécificité. Les notions et les outils indispensables à leur compréhension sont décrits. Les liaisons sur fibre optique ainsi que des fonctions associées sont présentées de manière claire et pratique. De nombreux exercices corrigés illustrent les différents thèmes abordés. Ce livre est destiné aux étudiants du domaine des sciences et techniques de l'information ainsi qu'aux professionnels impliqués dans le déploiement des réseaux très haut débit. Optique et structure de la matière ; solutionnaire André Arès, Jules Marcoux, 1974

La Grande Unification en Science, Sans doute la plus fascinante théorie unificatrice publiée cette date. Elle est accompagnée de 100 illustrations en couleurs pour la rendre divertissante et accessible par tous. 292 pages. En français.

Motorisation - Approche mécanique élémentaire illustrée - BTS et IUT François Martin, 2020-05-19. L'auteur propose en trois tomes une présentation pratique de la motorisation des systèmes mécaniques. Il vise à faire acquiescer l'aptitude à choisir un moteur ou modifier la motorisation d'une chaîne de manutention entraînée par un ou plusieurs moteurs électriques. Dans ce but, le premier ouvrage est consacré à l'étude mécanique des charges entraînées. Pour s'adresser des publics très divers, le livre ne requiert aucun acquis préalable. L'auteur introduit même les notions de base de la mécanique nécessaires en les présentant de façon élémentaire et toujours illustrées avec des exercices simples. Il revient ainsi d'abord sur la translation rectiligne, la rotation, le frottement, l'énergie. Puis il présente les caractéristiques mécaniques d'un moteur et il analyse les réducteurs. Enfin, le livre est complété par l'étude chiffrée de quelques exemples réels. Matériaux - De l'élaboration à l'utilisation des matériaux - Caractéristiques, obtention, emplois Évelyne Darque-Ceretti, Marc Aucouturier, Éric Felder, Matthieu Horgnies, 2020-09-22. Présenté sous la forme originale d'articles variés classés par ordre alphabétique, l'ouvrage s'adresse aux étudiants scientifiques ainsi qu'aux enseignants ingénieurs et toutes personnes s'intéressant aux matériaux qui nous entourent. Il présente un panorama diversifié sur ces matériaux, leurs propriétés et leur exploitation. Une première partie présente pour 32 matériaux ou familles de matériaux, alliages polymères, semi-conducteurs, un bref historique, leurs principales propriétés mécaniques et caractéristiques, ainsi que quelques anecdotes instructives. La deuxième partie traite des diverses propriétés d'usage des matériaux : dureté, usure, valorisation et de leur exploitation pratique dans des domaines variés. Les problèmes environnementaux et sociaux sont également abordés. La troisième partie est consacrée aux procédés de mise en œuvre pour l'obtention, le traitement et la transformation de ces matériaux en objets utiles. **La constitution morphologique de la matière vivante d'après l'enseignement de J. Kunstler** Joseph Kunstler, 1917 *Optique géométrique* Tamer Becherrawy, 2005-12-19. Une présentation cohérente et complète de l'optique géométrique illustrée par de nombreux exemples et accompagnée de séries d'exercices. Ce texte traite l'optique géométrique au niveau de la première année d'études universitaires L1 et aborde des sujets que l'étudiant retrouve au cours de la deuxième année L2. Les principes de base sont

clairement non seulement les lois sont démontrées avec clarté et rigueur scientifique. Les notions sont abordées dans un ordre pertinent et la progression en difficulté est raisonnable. Des notes historiques illustrent le développement de l'optique et ouvrent des aspects contemporains. Les limites de validité du modèle de l'optique géométrique sont clairement précisées. Les aspects physiques et les applications sont bien développés. Ce texte utilise la méthode géométrique et trigonométrique habituelle et il aborde en parallèle la méthode matricielle. Il introduit le principe de Huygens et le principe de Fermat. Il analyse les systèmes centrés, leurs aberrations et les instruments d'optique. Pour entraîner l'étudiant, chaque chapitre contient des exemples résolus, un résumé des principaux résultats, des conseils pour la résolution des exercices, des illustrations expérimentales, des questions de réflexion et de nombreux exercices groupés par sections et classés par difficulté croissante allant des simples applications des exercices qui nécessitent une analyse poussée. Leurs réponses données à la fin du texte permettent l'étudiant de tester ses résultats. Ces éléments font de ce texte un bon outil pédagogique adapté aux tendances actuelles de l'enseignement de la physique. Le plus correspond au programme de première année L1 et une partie de L2, nombreux exercices corrigés classés par ordre de difficulté, résumé des notions les plus importantes en fin de chaque chapitre.

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