

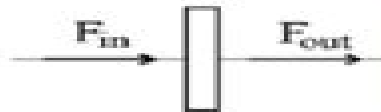
Propriétés optiques des matériaux : absorption, réflexion, réfraction, dispersion...

Les matériaux utilisés pour réaliser des composants optiques sont
 ± **absorbants** (pertes énergétiques selon le trajet Flux ↓ si L ↑)
 ± **réfringents** (déviation du faisceau au franchissement d'un dioptre,...)
 ± **réfléchissants** (pertes au franchissement d'un dioptre, images multiples,...)
 ± **dispersifs** (trajet différents selon la couleur λ , ...)

1 - Absorption de lumière par le milieu de propagation

Filtres atténuateurs neutre

- α Composant utilisé pour faire diminuer le flux F ↓
- ∞ Atténuation $A = \frac{F_{out}}{F_{in}}$
ex : si $A = 0,1$ seul 10% du flux passe le filtre
- ∞ A facteur de perte par absorption $0 \leq A \leq 1$
matériau : opaque $A = 0$, transparent $A \approx 1$
- ∞ Selon le modèle : A fixé ou réglable (orientation)



Absorption : loi de Beer $F(L) = F_0 \exp(-\alpha(\lambda)L)$



Le flux de lumière traversant un cylindre de section constante décroît exponentiellement lorsque sa longueur L augmente avec $\alpha(\lambda)$ coefficient d'absorption (en m^{-1}) caractéristique du milieu de propagation.

Atténuation A selon l'épaisseur (sans unité) $A = \frac{F(L)}{F_0} = \exp(-\alpha(\lambda)L)$

Atténuation A_{dB} (en dB) $A_{dB} = -10 \log_{10}(A) = -10 \log_{10}\left(\frac{F(L)}{F_0}\right)$

Une échelle logarithmique facilite l'usage des nombres très petits

Proprietes Optiques Et Acoustiques Des

**Jules Jamin, Edmond Marie Léopold
Bouty**



Propriétés Optiques Et Acoustiques Des:

Propriétés acoustiques des matériaux Parviz Navi, 2006-01-01 Cet ouvrage présente tout d'abord les principaux éléments de l'acoustique physique et les bases analytiques nécessaires à la description du phénomène de propagation des ondes planes harmoniques. Sont traités les cas des fluides et des solides qu'ils soient homogènes ou hétérogènes purement élastiques ou viscoélastiques. À partir des modèles développés des méthodes de caractérisation non destructive des propriétés effectives des milieux présentés sont tabulés. Ces modèles appliqués la formule générale du transfert constituent un puissant outil permettant de traiter la quasi-totalité des problèmes d'absorption et d'isolation rencontrés dans les matériaux de construction. En marge des préoccupations liées à notre environnement sonore, cette problématique concerne également les phénomènes vibratoires liés aux manifestations sismiques, les techniques émergentes de microscopie acoustique ou encore de contrôle de qualité in situ. Source 4e de couv. *Propriétés optiques et acoustiques des fluides comprimés et actions intermoléculaires*, Bellevue 1-6 juillet 1957 Centre national de la recherche scientifique (France), 1959 [Phenomena Induced by Intermolecular Interactions](#) G. Birnbaum, 2013-03-09 This book is concerned with recent experimental and theoretical work dealing with phenomena created by the transient dipoles and polarizabilities produced by intermolecular interactions. The former produce absorption from the microwave to the optical regions of the spectrum and the latter produce Rayleigh and Raman scattering. Such absorption and scattering would be absent without collisions. Static properties such as dielectric constant, refractive index and Kerr effect also exhibit the effects of induced dipoles and polarizabilities. The first observation of an infrared absorption spectrum produced by the collisions of molecules which ordinarily do not have an allowed dipole transition was reported in 1949. Crawford, Welsh and Locke. The first observation of depolarized Rayleigh spectra due to collisions in atomic gases appeared in 1968. McTague and Birnbaum. However, it was not until 1977 that the first conference dealing with collision-induced phenomena was organized by J. D. Poll at the University of Guelph. This conference was mainly concerned with studies of collision-induced absorption in gases. Light scattering received more attention at the second meeting of the collision-induced community in 1978 at the E. Fermi Summer School on Intermolecular Spectroscopy and Dynamical Properties of Dense Systems organized by J. Van Kranendonk. However, the emphasis was still on collision-induced absorption in compressed gases, although some work on liquids, solid H₂ and related subjects such as rotational relaxation was included. The third induced phenomena conference organized by F. *Acoustique. Optique géométrique. Étude des radiations. Optique physique* Jules Jamin, Edmond Marie Léopold Bouty, 1887 **Leçons de physique générale par James Chappuis [et] Alphonse Berget [...]: Acoustique. Optique. Electro-optique** James Chappuis, Alphonse Berget, 1892 *The World of Quantum Chemistry* R. Daudel, A. Pullman, 2012-12-06 Proceedings of the First International Congress of Quantum Chemistry held at Menton, France, July 4-10, 1973 *Les propriétés physico-chimiques des matériaux de construction* Christian Lemaître, 2012-02-02 Ce manuel contient les connaissances de base conduisant au choix des matériaux dans le domaine de la construction. Tous les paramètres

sont examinés sollicitations mécaniques ou liées au climat tenue au feu problèmes relatifs la santé dans les habitations isolation thermique en relation avec les questions d'aération et d'humidité dans les locaux confort acoustique ou encore ambiances lumineuses la description de chacun des matériaux sont associées les normes la réglementation et les notions concernant les constructions durables Dans une pagination réduite cette initiation moderne l'indispensable connaissance des matériaux de construction et de leurs fonctionnalités s'adresse en priorité aux élèves et aux étudiants en génie civil abordant pour la première fois les matériaux de construction dans les IUT dans les licences de matériaux dans les Masters pro et dans les écoles d'ingénieurs orientées BTP UT ESITC ESTP INSA etc Les formateurs et les stagiaires de la formation continue y trouveront l'essentiel de ce qu'il faut savoir

Cours de physique de l'École polytechnique: Acoustique. Optique géométrique. Étude des radiations. Optique physique. 1881 Jules Jamin, Edmond Marie Léopold Bouty, 1881 **Leçons d'acoustique et d'optique professées à l'Université de Paris ...** Lippmann (M., Gabriel), 1899 Collision- and Interaction-Induced Spectroscopy

G.C. Tabisz, Murray N. Neuman, 2012-12-06 Collision or interaction induced spectroscopy refers to radiative transitions which are forbidden in free atoms or molecules but which occur in clusters of interacting atoms or molecules The most common phenomena are induced absorption in the infrared region and induced light scattering which involves inelastic scattering of visible laser light The particle interactions giving rise to the necessary induced dipole moments and polarizabilities are modelled at long range by multipole expansions at short range electron overlap and exchange mechanisms come into play Information on atomic and molecular interactions and dynamics in dense media on a picosecond timescale may be drawn from the spectra Collision induced absorption in the infrared was discovered at the University of Toronto in 1949 by Crawford Welsh and Locke who studied liquid O₂ and N₂ Through the 1950s and 1960s the experimental elucidation of the phenomenon particularly in gases continued and theoretical underpinnings were established In the late 1960s the related phenomenon of collision induced light scattering was first observed in compressed inert gases In 1978 an Enrico Fermi Summer School was held at Varenna Italy under the directorship of J Van Kranendonk The lectures there reviewed activity from the previous two decades during which the approach to the subject had not changed greatly In 1983 a highly successful NATO Advanced Research Workshop was held at Bonas France under the directorship of G Birnbaum An important outcome of that meeting was the demonstration of the maturity and sophistication of current experimental and theoretical techniques

Cours de physique de l'École polytechnique: Acoustique. Optique géométrique. Étude des radiations. Optique physique Jules Jamin, Edmond Marie Léopold Bouty, 1887 Akustik I / Acoustics I S. Flügge, 2012-12-06 Matériaux - Physico-chimie des matériaux métalliques - Propriétés, traitements - Niveau B Nathalie Siredey-Schwaller, 2019-05-21 Cet ouvrage développe l'intention des élèves ingénieurs métallurgistes les phénomènes qui conditionnent les propriétés d'usage d'un métal pour faire comprendre les différents aspects du travail métallurgique et donner des pistes pour modifier ces propriétés en fonction du cahier des charges souhait Sont d'abord décrites les propriétés intéressantes pour l'emploi du métal et sont expliquées

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

Acoustique. Théorie physique de la lumière Gabriel Lamé,1840 **Cours de physique de lécole polytechnique: 1 ptie. Acoustique. Théorie physique de la lumière** Gabriel Lamé,1836 **Spectroscopy I / Spektroskopie I** S. Flügge,2013-12-01 Perturbation des bandes de rotation-vibration de quelques molécules diatomiques polaires comprimées et "paires orbitantes" à rotation "bloquée" Hai Vu,1961-01-01T00:00:00+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 *Cours de Mineralogie (histoire Naturelle)* Alexandre Felix Gustave Achille Leymerie,1867

Acoustique et optique des salles de réunions Théodore Lachèz,1879 Cours de physique: Acoustique et optique Jules Louis Gabriel Violle,1892

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