Exercices d'Optique

« (...) que mon corps est le prisme inaperçu, mais vêcu, qui réfracte le monde apercu vers mon « Je ». Ce double mouvement de conscience, à la fois centrifuge et centripète, qui me relie au monde, transforme celui-ci par là même, lui donne une détermination, une qualification nouvelle. >

Edmond BARBOTIN - Humanité de l'homme Aubier, p. 48 (1970)

■ Lois de Snell-Descartes

Ex-O1.1 Mise en jambes

Refaire le schéma ci-contre en ne laissant que les rayons lumineux existant réellement.

Donner toutes les relations angulaires possibles en précisant pour chacune si elle est d'origine géométrique ou optique.

Ex-O1.2 La loi de la réfraction

Un rayon lumineux dans l'air tombe sur la surface d'un liquide; il fait un angle $\alpha =$ 56° avec le plan horizontal.

La déviation entre le rayon incident et le rayon réfracté est $\theta = 13,5^{\circ}$. Quel est l'indice n du liquide ?

Rép. : n = 1, 6.

Life, Life.

M2

Ex-O1.3 Constructions de Descartes et de Huygens

Montrer que les deux constructions suivantes permettent de tracer le rayon réfracté.

1) Construction de Descartes :

- o tracer les cercles de rayons ni et no:
- soit M l'intersection du ravon incident avec le cercle de ravon PAGE 5

o soit P l'intersection du cercle de rayon n₂ et de la droite orthogonale à la surface de séparation passant par M;

le ravon réfracté n'est autre que OP.

2) Construction de Huygens :

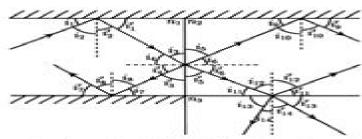
- o tracer les cercles de rayons 1/n₁ et 1/n₂;
- soit M l'intersection du rayon incident avec le cercle de rayon 1/ma:
- tracer la tangente en M au cercle de rayon 1/n;
- soit I le point d'intersection de la tangente avec la surface de séparation :
- soit P l'intersection du cercle de rayon 1/n2 et de la seconde tangente tracée :
- le rayon réfracté n'est autre que OP.

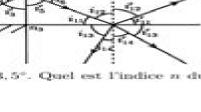
Ex-O1.4 Dispersion par le verre

Le tableau ci-contre donne les longueurs d'onde. dans le vide, de deux radiations monochromatiques et les indices correspondants pour deux types de verre différents.

Couleur	λ_0 (mm)	zi (crown)	m (flint)
- DORLIGHT	656.3	1,504	1.612
blea	486.1	1,521	1,671

1) Calculer les fréquences de ces ondes lumineuses. Dépendent-elles de l'indice du milieu? On prendra $c_0 = 2.998.10^8 \ m.s^{-1}$.





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