

## **Unité IV** **Optique**

### **INTRODUCTION**

Les premiers modèles (de l'ère des grecs) de la lumière s'intéressaient plus à la source de lumière. Est-ce que la lumière est originaire des yeux ou de l'objet? La théorie tactile était basée sur l'habileté des yeux de « toucher les objets ». Selon Platon, la lumière est composée de filaments venant des yeux. Lorsque ces filaments entrent en contact avec un objet, la vision est établie. Une autre théorie de l'époque, la théorie d'émission, était l'opposée de la théorie tactile. Elle énonçait que les objets envoient des rayons de lumière qui ricochent des objets pour atteindre l'œil. La théorie d'émission était généralement mieux acceptée que la théorie tactile.

Les deux théories de la lumière ayant présentement le plus de succès sont celles de Sir Isaac Newton et Christian Huygens. Vers la fin du XVII<sup>e</sup> siècle, Newton nous proposa un modèle corpusculaire pour le comportement de la lumière tandis que Huygens croyait qu'un modèle ondulatoire serait plus approprié. Le modèle corpusculaire conçoit la lumière comme étant un agrégat de particules projetées par les corps lumineux. Le modèle ondulatoire propose que la lumière se propage et se comporte comme des ondes.

Étant donné que nous sommes maintenant familier avec les caractéristiques, la nature de la propagation et les comportements des ondes et que nous en connaissons déjà beaucoup sur le comportement des particules, nous sommes maintenant plus en mesure de critiquer ces deux modèles. Nous regarderons à quelques comportements de la lumière pour ensuite voir si et comment chacun des modèles proposés les expliquent.

En même temps, on regardera à des appareils optiques tels que le miroir et les lentilles et autres pour voir comment ils utilisent les comportements de la lumière pour rendre notre vie plus facile.

### **1. PROPRIÉTÉS ÉLÉMENTAIRES DE LA LUMIÈRE – EXPLICATIONS DES MODÈLES**

**Propriété # 1 :** La lumière se propage en ligne droite.

*Modèle corpusculaire :* Le modèle est acceptable si on assume que les particules se déplacent à une très grande vitesse.

*Modèle ondulatoire :* Le modèle est acceptable pour soit un front d'onde rectiligne ou circulaire car la direction de propagation est droite (perpendiculaire au front d'onde) tant que le milieu demeure uniforme.

# Lettres De Julia Ou Lumiegrave De Laudelagrave

**D Siedentop**



**Lettres De Julia Ou Lumiegravere De Laudelagrave:**

## **Lettres De Julia Ou Lumiegravere De Laudelagrave Book Review: Unveiling the Magic of Language**

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Lettres De Julia Ou Lumiegravere De Laudelagrave**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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