

# The development of optics

Man kind has speculated about vision and light since antiquity. Plato thought that the eye emitted particles that made objects visible. Pythagoras thought that objects projected light particles into the eye. Aristotle thought that its particles moved through waves from the objects to the eye. It was not until the 17th century that "light was laid" on its physical properties.

## LIGHT DEBATE

The nature of light was long discussed among scientists. Isaac Newton (1642-1727) believed light were composed of particles that moved in straight lines. However, later ideas and evidence proved the wave like nature of light beams. Among them, the diffraction observed by Francesco Grimaldi (1665), the suggestion of Christiaan Huygens to compare light to a mechanical wave in physical environment, the experiment of the "double slit" by Thomas Young in 1801 and the equations by James Maxwell in 1864, that classified light among electromagnetic waves.

## LIGHT AS A WAVE

Christiaan Huygens (1629-1695) was a Dutch astronomer and physicist. He proposed that light is a wave phenomenon. He also proposed that light waves travel in straight lines.



When going through the two slits, the light from a narrow source is diffracted or scattered following a pattern.

**WHITE RAY**  
A narrow colour spectrum is reflected on the surface in front of the window. Red, orange, yellow, green, blue, indigo and violet.

**WAVING ENERGY**  
Huygens, Bohr and Einstein considered that light has dual properties. It spreads like a wave but also like particles of energy "quanta".

## SPECTRAL LIGHT

Newton used the new philosophy to understand the world: observing, testing and thinking. In this way, towards 1666, he was able to prove that light, that was considered white, was really made up of coloured lights that deviated their trajectory in different angles. By reflecting white passing through a crystal prism, in 1671, Newton gave it the name of "light spectrum".

**TELESCOPE**  
As part of his studies on the nature of light, Newton also invented a kind of reflector telescope.

**PRISM**  
Thought in a flash, the triangular structure of crystal splits white light into a band of colours.

**EXPERIMENT**  
He isolated each of the colours by making small holes on the screen.

**DID YOU KNOW Documents**  
Newton personally drew all the details of his experiment in a diagram.

**LIGHT SOURCE**  
Natural light comes through a small hole in the window of the room where Newton had his laboratory.

# Theory Of Optics

**Rudolf Karl Luneburg**



## Theory Of Optics:

**The Theory of Optics** Paul Drude,1901      *Mathematical Theory of Optics* R. K. Luneburg,2023-11-15 This title is part of UC Press s Voices Revived program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1964

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revised and updated The chapters on Polymer and Fiber Integrated Optics Optical Amplifiers Micro Optical Electro  
Mechanical Devices and Photonic and Microwave Wireless Systems are completely new BOOK JACKET      *The Theory of  
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## Reviewing **Theory Of Optics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Theory Of Optics**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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