

# Modern Classical Optics

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**Modern Classical Physics: Optics, Fluids, Plasmas, Elasticity, Relativity, and Statistical Physics. Kip S. Thorne and Roger D. Blandford; From Nobel Prize winner Kip Thorne and acclaimed physicist Roger Blandford, a**

**groundbreaking textbook on twenty-first-century classical physics.**

**[Modern Classical Physics | Princeton University Press](#)**

**Optics is the branch of physics that studies the behaviour and properties of light, including its interactions with matter and the construction of instruments that use or detect it. Optics usually describes the behaviour of visible, ultraviolet, and infrared light. Because light is an electromagnetic wave, other forms of electromagnetic radiation such as X-rays,**

**microwaves, and radio waves ...**

**[Optics - Wikipedia](#)**

**Journal of Modern Optics Publishes work on classical, quantum, biomedical, nonlinear, ultrafast, diffractive and modern optics, including plasmonics, nanophotonics, fibers and imaging. Search in: This Journal Anywhere**

**[Journal of Modern Optics: Vol 68, No 3](#)**

**Key tenets of classical optics, such as Huygens Principle, developed in the 17th century,**

**Maxwell's Equations and the wave equations, developed in the 19th, do not depend on quantum properties of light. Modern optics. Photonics is related to quantum optics, optomechanics, electro-optics, optoelectronics and quantum electronics. However, each ...**

**[Photonics - Wikipedia](#)**

**fiber optics (optical fiber): Fiber optics, or optical fiber, refers to the medium and the technology associated with the transmission of information as light pulses along a glass or plastic strand or fiber. A fiber optic cable can**

**contain a varying number of these glass fibers -- from a few up to a couple hundred. Surrounding the glass fiber ...**

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**Lenses of moderately good quality were being made for telescopes and microscopes, and in 1841 the great mathematician Carl Friedrich Gauss published his classical book on geometrical optics. In it he expounded the concept of the focal length and cardinal points of a lens system and developed formulas for calculating the position and size of the ...**

[optics | History, Applications, & Facts | Britannica](#)



**Parts of a refracting telescope (©2019 Let's Talk Science based on an image by Krishnavedala [CC BY-SA 4.0] via Wikimedia Commons). A classical Newtonian reflector also has a long tube. But instead of an objective lens, it has an objective or primary mirror. Remember, an objective lens is at the end of the tube where the light comes in.**

**[The Optics of Telescopes | Let's Talk Science](#)**

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[Journal of Optics A: Pure and Applied Optics - IOPscience](#)

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**conflicts that start for other reasons. In some cases, water was used directly as a weapon through its ability to ...**

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**This method is based on the classical theory of electromagnetic radiation, which will be ... In this chapter our discussion is limited to the geometrical optics region, in which we forget about the wavelength and the photon character of the light, which will all be explained in due time. ... so it is not a modern theory. It was this**

**that ...**

**[The Feynman Lectures on Physics Vol. I Ch. 26: Optics: The ...](#)**

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