

# Opticks Or A Treatise Of The Reflections Refraces

Opticks: Or, A Treatise of the Reflections, Refractions, Inflections and Colours of Light: 1730

Opticks: Or, A Treatise Of The Reflexions, Refractions, Inflections and Colours Of Light

Opticks

Opticks: Or, a Treatise of the Reflexions, Refractions, Inflections and Colours of Light. Also Two Treatises of the Species and Magnitude of Curvilinear Figures

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OPTICKS, OR A TREATISE OF THE REFLEXIONS, REFRACTIONS, INFLECTIONS AND COLOURS OF LIGHT

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Opticks; or a treatise of the reflections, refractions, inflections, and colors of light

Opticks Or, a Treatise of the Reflections, Refractions, Inflections, and Colours

Newton's Opticks

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*Opticks Or A Treatise Of The Reflections Refraces*

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## KALEB DILLON

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**Opticks: Or, a Treatise of the Reflexions, Refractions, Inflections and Colours of Light. Also Two Treatises of the Species and Magnitude of Curvilinear Figures** Good Press  
This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1730 edition. Excerpt: ...can be made of them, ) as soon as I had blown any of them them I cover'd it with a clear Glass, and by, that means its Colours emerged in a very regular order, like so many concentrick Rings encompassing the top of the Bubble. And as the Bubble grew thinner by the continual subsiding of the Water, these Rings dilated flowly and overspread the whole Bubble, descending in order to the bottom of it, where they vanih'd successively. In the mean while, after all the Colours were emerged at the top, there grew in thecenter of the Rings a small round black Spot, like that in the first observation, which continually dilated it self till it became sometimes more than or of an Inch in breadth before the Bubble broke. At first I thought there had been no Light reflected from.the Water in that place, but observing it more curiously, I saw within it several smaller round Spots, which appeared much blacker and darker than the rest, whereby I knew that there was some Reflexion at the other places which were not so dark as those Spots. And by farther Tryal I found that I could fee the Images, of some things (as of a Candle or the Sun) very faintly reflected, not only from the great black Spot, but also from the little darker Spots which were within it. Besides the aforesaid colour'd Rings there would often appear small Spots of Colours, ascending and descending up and down the sides of the Bubble, by reason of some Inequalities in the subsiding of the Water. And sometimes small black Spots generated at the fides would ascend up to the larger black Spot at the top of the Bubble, and unite with it, Obs. 18. Because the Colours of these Bubbles were more extended and lively than theft of the Air thinn'd between two Glasses, and so more easy...

**Opticks, Or, A Treatise of the Reflections, Refractions, Inflections & Colours of Light** Library of Alexandria  
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*Opticks* Forgotten Books

Reproduces the text of Newton's dissertation on the nature and properties of light

Opticks, Or, A Treatise of the Reflections, Refractions, Inflections & Colours of Light Wentworth Press

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*Opticks* Createspace Independent Publishing Platform

Sir Isaac Newton's classic treatise on the nature of light and the study of optics.

Opticks, Or a Treatise of the Reflections, Refractions, Inflections and Colours of Light Gale Ecco, Print Editions

Optics by Isaac Newton is a treatise on light and the science of

reflected light, refracted light, and colors. The book analyzes the fundamental nature of light using the refraction of light with prisms and lenses, the diffraction of light by closely spaced sheets of glass, and the behavior of color mixtures with spectral lights or pigment powders. Excerpt: "Exper. 1. I took a black oblong stiff Paper terminated by Parallel Sides, and with a Perpendicular right Line drawn cross from one side to the other, distinguished it into two equal Parts. One of these parts I painted with a red color and the other with blue. The Paper was very black, and the Colors intense and thickly laid on, that the Phænomenon might be more conspicuous. This Paper I viewed through a Prism of solid Glass, whose two Sides through which the Light passed to the Eye was plane and well polished, and contained an Angle of about sixty degrees; which Angle I call the refracting Angle of the Prism."

[Opticks, Or, A Treatise of the Reflections, Refractions, Inflections & Colours of Light](#) Andesite Press

One of Isaac Newton's most influential works, this classic treatise on the principles of colour and light presents his groundbreaking experiments and discoveries regarding the colour spectrum and the nature of light. Opticks is a landmark publication that laid the foundation for modern colour science. First published in 1704, Newton details his experiments with light, prisms, and the colour spectrum, which led to the establishment of colour theory. His pioneering ideas led to insights into reflection, refraction, and the behaviour of light waves, revolutionising the field of optics. Highly detailed and thoroughly illustrated, Newton's Opticks is a cornerstone text on the history of science, the nature of light, and the origins of modern optics. This new edition from Read & Co. Books also features a biography of Isaac Newton. It is an essential textbook for those interested in his revolutionary work and the physics of light and colour.

[Opticks, Or, A Treatise of the Reflections, Refractions, Inflections and Colours of Light](#) Legare Street Press

A seminal work by Isaac Newton, 'Opticks' contains discussions of the properties of light, color perception, and the propagation of light. A must-read for anyone interested in the history of science and mathematics. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

**Opticks: A Treatise of the Reflections, Refractions, Inflections, and Colours of Light** Gale Ecco, Print Editions

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*OPTICKS* Nabu Press

Contains a digitized facsimile of the edition of 1704, reproduced from the copy in the Warnock Library; with commentary by Nicholas Humez.

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Excerpt from Opticks, or a Treatise of the Reflexions, Refractions, Inflections and Colours of Light: Also Two Treatises of the Species and Magnitude of Curvilinear Figures I G H T S which differ in Colour, differ also in Degrees of Refrangibility. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

[Opticks](#) Legare Street Press

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[Opticks, Or, a Treatise of the Reflections, Inflections and Colours of Light](#) Wentworth Press

Excerpt from Opticks: Or, a Treatise of the Reflections, Refractions, Inflections and Colours of Light These matters, I have hitherto delayed the printing, and should still have delayed it, had not the Importunity of friends prevailed upon me. If any other Papers writ on this Subject are got out of my Hands they are imperfect, and were perhaps written before I had tried all the Experiments here set down, and fully satisfied myself about the Laws of Refractions and Composition of Colours. I have here publish'd what I think proper to come abroad, wishing that it may not be translated into another Language without my Consent. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

*Opticks: Or, A Treatise Of The Reflexions, Refractions, Inflections and Colours Of Light* Nabu Press

Opticks or, a Treatise of the Reflections, Refractions, Inflections, and Colours of Light by Isaac Newton By the Rays of Light I understand its least Parts, and those as well Successive in the same Lines, as Contemporary in several Lines. For it is manifest that Light consists of Parts, both Successive and Contemporary; because in the same place you may stop that which comes one moment, and let pass that which comes presently after; and in the same time you may stop it in any one place, and let it pass in any other. For that part of Light which is stopp'd cannot be the same with that which is let pass. The least Light or part of Light, which may be stopp'd alone without the rest of the Light, or propagated alone, or do or suffer any thing alone, which the rest of the Light doth not or suffers not, I call a Ray of Light. DEFIN. II. Refrangibility of the Rays of Light, is their Disposition to be refracted or turned out of their Way in passing out of one transparent Body or Medium into another. And a greater or less Refrangibility of Rays, is their Disposition to be turned more or less out of their Way in like Incidences on the same Medium. Mathematicians usually consider the Rays of Light to be Lines reaching from the luminous Body to the Body illuminated, and the refraction of those Rays to be the bending or breaking of those lines in their passing out of one Medium into another. And thus may Rays and Refractions be considered, if Light be propagated in an instant. But by an Argument taken from the Equations of the times of the Eclipses of Jupiter's Satellites, it seems that Light is propagated in time, spending in its passage from the Sun to us about seven Minutes of time: And therefore I have chosen to define Rays and Refractions in such general terms as may agree to Light in both cases. We are delighted to publish this classic book as part of our extensive Classic Library collection. Many of the books in our collection have been out of print for decades, and therefore have not been accessible to the general public. The aim of our publishing program is to facilitate rapid access to this vast reservoir of literature, and our view is that this is a significant literary work, which deserves to be brought back into print after many decades. The contents of the vast majority of titles in the Classic Library have been scanned from the original works. To ensure a high quality product, each title has been meticulously hand curated by our staff. Our philosophy has been guided by a desire to provide the reader with a book that is as close as possible to ownership of the original work. We hope that you will enjoy this wonderful classic work, and that for you it becomes an enriching experience

**Opticks:** Theclassics.us

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