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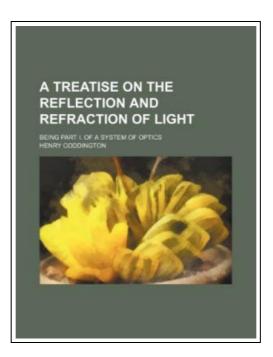


A TREATISE ON THE
REFLECTION AND
REFRACTION OF LIGHT

BEING PART I. OF A SYSTEM OF OPTICS
HENRY CODDINGTON

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## Reviews

*Merely no words to spell out. I am quite late in start reading this one, but better then never. I am happy to explain how this is actually the very best publication we have go through within my personal daily life and can be he best ebook for at any time.*

*(Althea Christiansen)*

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# A TREATISE ON THE REFLECTION AND REFRACTION OF LIGHT; BEING PART I. OF A SYSTEM OF OPTICS



Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1829 Excerpt: .and is sometimes used for the same purposes. We will, therefore, examine the modifications which a pencil of rays will experience in passing through it. It was observed (Art. 69.) that there are three different ways in which the axis of a pencil might pass through a lens: (1) Directly through the center. (2) Obliquely through the center. (S) Excentrically, Now, in a sphere, it will easily be seen that the second Case is merged in the first, the points C, D, and E, of the lens all coinciding with O, the center. The third Case will be found to have this peculiarity, that the angles of incidence and emergence are necessarily equal. 106. Prop. 24. A small pencil of rays passes through the center of a sphere: required the position of the focus. Case 1. Parallel Rays. Let QAB (Fig. 83.) be the axis of the pencil, QR a second ray, refracted into the directions RS, SF. Produce QR, FS to meet in L. Join OR, OS. Produce RS to cut AB in Q . Then the angles of refraction ORS, OSR are equal to one another, therefore the angles of incidence and emergence ORL, OSL are also equal. /L LSR = /.LRS, .-. L FSQ -tSQ F;.: SF = FQ . 3 3 For instance, if u =-, OF =-r. 2 2 The principal focus is, therefore, at the distance of a radius and a half from the center. If M = 2 OF=r,...

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