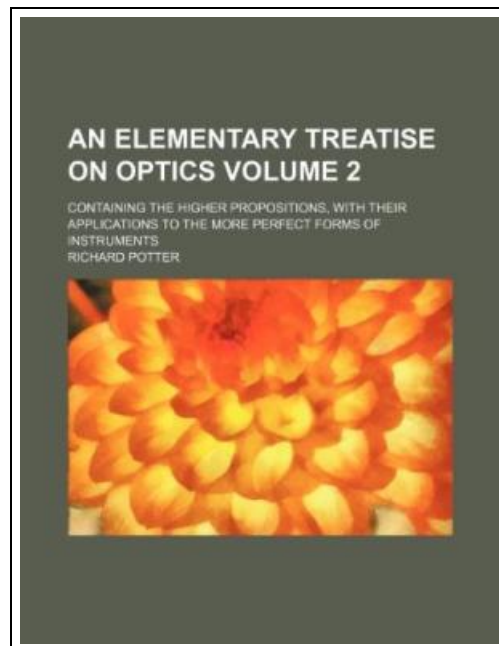


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AN ELEMENTARY TREATISE ON OPTICS VOLUME 2; CONTAINING THE HIGHER PROPOSITIONS, WITH THEIR APPLICATIONS TO THE MORE PERFECT FORMS OF INSTRUMENTS



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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. 1851 Excerpt: .or greater than zero, or $4(i-l)V-4(1-l)n-(3l-.2 + 2iu-l)=or 0 1+ /a(3u. + 2) m=or g$ If we take $ju. = 5$ this expression gives us, $n = or 1+3.12$, or $- = or 4.12$ and $--2.12$ Substituting $n=4.12$ in the above expression for m we have $m=-1.9 f f$ and $u =---Vrr?- 1.9$ Or, Q falls on the opposite side of the lens to that in the figure of Art. 34, and the incident pencil is strongly convergent. For the form of the lens we have $r f f n 4.12 \#Gx-1)/ r 2 4.12 / / 2.12 / s---l-2.12$ These data give a meniscus lens and Q, q the conjugate foci, as in the figure, drawn for a focal length of three inches. Again substituting $n=-2.12$ in the expression for m we have $m=2.9$ This is the same lens as before, with the concave surface towards the incident light, which diverges from q , and is refracted diverging accurately from the virtual focus Q . The values of m will be real for all values of n positive or negative respectively, greater than the above; but for such lenses m will have two values which give $A = 0$, and between these the aberration changes sign. It is useful to examine a case amongst the forms of lenses which have this property of two aplanatic foci, with the aberration changing sign as the geometrical focus of the refracted pencil passes from one side to the other of these points....



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