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# An Elementary Treatise on Optics

By Richard Potter

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. 1847 Excerpt: . we may suppose continued to any number of lenses. If any of the lenses were concave, their focal lengths would be negative, and in the summation must be taken with their proper signs; so that  $F$  being the focal length of the single lens, which is equivalent to the combination, it will be positive or negative, or will be the focal length of a convex or concave lens respectively, as the sum is positive or negative. If we call  $s$ , or the reciprocal of the focal length, the power of a lens, the proposition shews us that the power of a combination of any number of thin lenses in contact, equals the sum of the powers of the separate lenses. The image of an object formed by the combination will be the same in position and magnitude as would be formed by a lens whose...



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