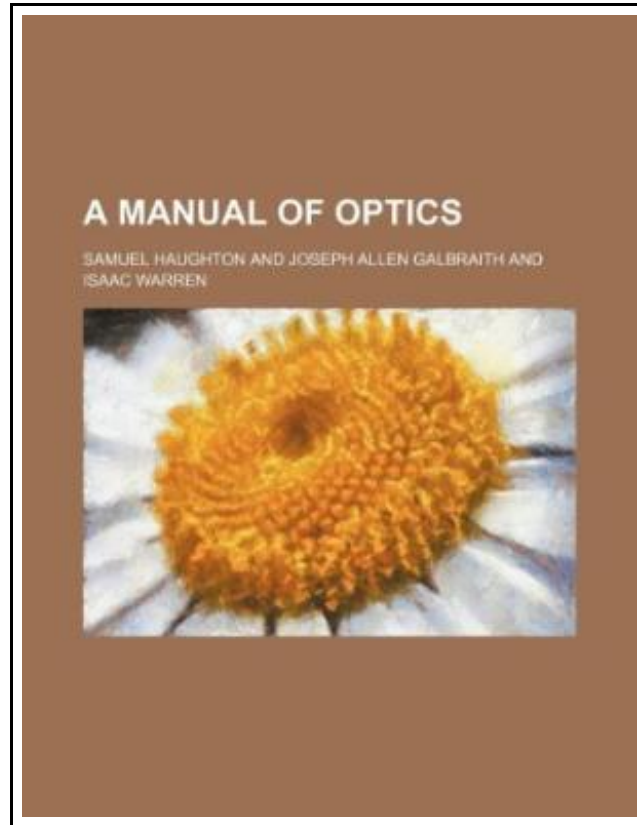


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1899 Excerpt: .produced by a lens of fluor spar of 1J in. aperture and 10 in. focus. Ans. 0-0033 or 11 20. 6. Find the dispersion produced by a lens of rock-salt of 1J in. aperture and 10 in. focus. Ans. 0-00795 or 27 20. 7. Find the focal length of a water lens which will achromatise the lens described in (5). Ans. 15-91 in. 8. Find the dispersion caused by a diamond lens whose focal length is-th of an inch, and aperture-jth of an inch. Ans. 0-144 or 6 31 54. 9. If the lens in Example (8) be plano-convex, find its curvature, refractive index being 2-755. Ans. = 0-058 in. Sir Isaac Newton observed that a combination, consisting of a glass prism enclosed in a prism of water of variable angle, their refracting angles being turned in opposite directions, always coloured the light transmitted when the emergent beam made an angle with the incident beam, and that the combination was achromatic when the emergent beam was parallel to the incident. From this he concluded that the dispersion of all substances was proportional to the deviation of the mean ray, and that therefore the dispersion could never be destroyed as long as any refraction took place. This was equivalent to supposing the dispersive powers of all bodies to be the same. For by Art. 37, Dispersion = deviation x dispersive power; therefore, if the dispersion be proportional to the deviation, the dispersive power is constant. Mr. Dollond,...



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