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A Handbook of Physics Measurements Volume N . 1

By Ervin Sidney Ferry

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. 1918 Excerpt: .detail in an image is proportional to the ratio of the focal length of the lens to its aperture. From (122) and (126), the value of the least angular separation between two object points is a. $r = 1.22 \lambda \frac{f}{a}$ where a is the diameter of the round centric aperture of the lens, v is the image distance, λ is the wavelength of the light, and r is the distance between two image points at the limit of resolution. In this equation r is taken to be the radius of the diffraction disk of one of the image points. Writing the above equation in the form (129) $\lambda \frac{f}{a}$ we see that the smallest resolvable detail in the image, expressed in wavelengths, is proportional to the ratio of the focal length of the lens to its aperture. Since for a system of lenses the...



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