A Treatise on Geometrical Optics (Classic Reprint) (Paperback)

By Robert Samuel Heath

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Treatise on Geometrical Optics In the following work an attempt has been made to give as complete an account of modern Optics, including the labours of Gauss, Listing, Maxwell, Helmholtz and Abbe, as could be compressed within the limits of a single volume; at the same time much that is of interest and importance, both theoretical and practical, has been necessarily omitted. The subjects have been treated as far as possible in a natural order, beginning with the simplest and advancing to the most general and complex. Thus the reflexion and refraction of single rays of light are considered before the corresponding properties of pencils, and the complete approximate theory of lenses is given before the theory of caustics and aberrations, and these before the general theory of thin pencils. The detailed consideration of heterogeneous media, which may be said to fall outside the province of optics, has been postponed to the last chapter. Gauss theory of lenses has been worked out completely by elementary geometrical methods, so as to bring it within the...

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