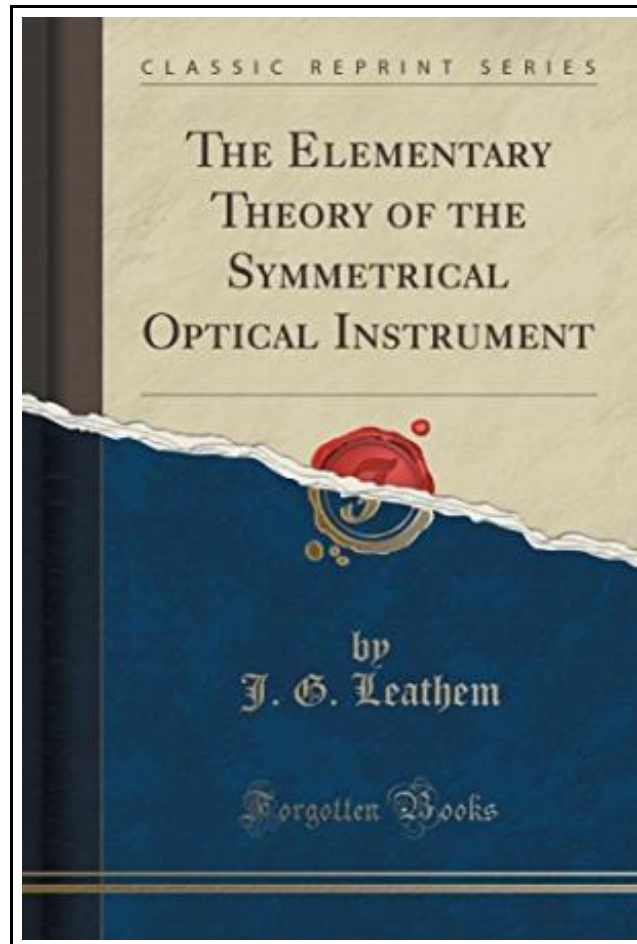# The Elementary Theory of the Symmetrical Optical Instrument (Classic Reprint)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Elementary Theory of the Symmetrical Optical Instrument In Gauss s Dioptrische Untersuchungen there is little trouble with sign conventions, and continued fractions are not employed. These are, however, prominent features in more recent presentations of the first-order theory of the optical instrument, and render the subject somewhat difficult to the beginner. It is the aim of the present Tract to eliminate all unnecessary difficulties and to give a quite elementary account of the theory; and, to this end, it has seemed desirable to follow (in Sections I Iv) the general lines of Gauss s memoir. I am indebted to a suggestion of Mr T. J. Ta. Bromwich for a feature of the present scheme which seems to me to mark a great advance in simplification, namely the postponing of the study of the functional form of the constants of the instrument till after its general optical properties have been established, and the employing of an elementary theorem in algebraic linear transformations to obtain the fundamental equations and the relation between the constants. Limits of space have prevented any close examination of the application of the theory to particular instruments, but one or two questions in connection with the equivalent thin lens and the adjustment of field-glasses, not usually treated in text-books, have been discussed; and a few pages have been devoted to bringing reflecting instruments within the scope of the theory. In Section IX a brief and, I hope, easy account is given of the third-order aberrations. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work....

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