



A Comparison of Different Line, Geometric Representations for Functions of a Complex Variable a Dissertation Submitted to the Faculty of the Ogden Graduate School of Science, in Candidacy for the Degree of Doctor

By Gladys E C Gibbens

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Comparison of Different Line, Geometric Representations for Functions of a Complex Variable a Dissertation Submitted to the Faculty of the Ogden Graduate School of Science, in Candidacy for the Degree of Doctor of Philosophy, (Department or Mathematics) Wilczynski has recently given two methods for constructing a congruence of lines determined by a functional relation between two complex variables, which enable one to visualize the properties of the function by studying the properties of the resulting congruence. In the first method, the two complex variables are represented upon two distinct planes, parallel to each other and a unit apart, the corresponding coordinate axes for the two planes being chosen parallel to each other in such a way that the two origins lie upon a line perpendicular to the two planes. If the points of the first plane are joined to the points of the second plane which correspond to them by means of a given functional relation $w = F(z)$, a two-parameter family, or a congruence, of straight lines is obtained. These congruences have certain...



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