



A New Basis for the Metric Theory of Congruences: A Dissertation Submitted to the Faculty of the Ogden Graduate School of Science in Candidacy for the Degree of Doctor of Philosophy, Department of

By Levi Stephen Shively

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A New Basis for the Metric Theory of Congruences: A Dissertation Submitted to the Faculty of the Ogden Graduate School of Science in Candidacy for the Degree of Doctor of Philosophy, Department of Mathematics In the classical theory of rectilinear congruences as developed by Kummer, the analysis is based upon two fundamental quadratic forms, formed from the expressions for the coordinates of the surface of reference and from the spherical representation of the congruence. Thus, when studied by this method, the congruence is in reality defined by its relation to two surfaces. Important results of the Kummer theory are the existence of the two focal surfaces and of two one-parameter families of developables. These results have been used by Wilczynski as the basis of his general projective theory of congruences. In the present paper also, the focal surfaces will be regarded as known by means of a parametric representation, such that the ruled surfaces $u = \text{const}$, and $v = \text{const}$, of the congruence are its developables. The first section is devoted to the introduction...



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