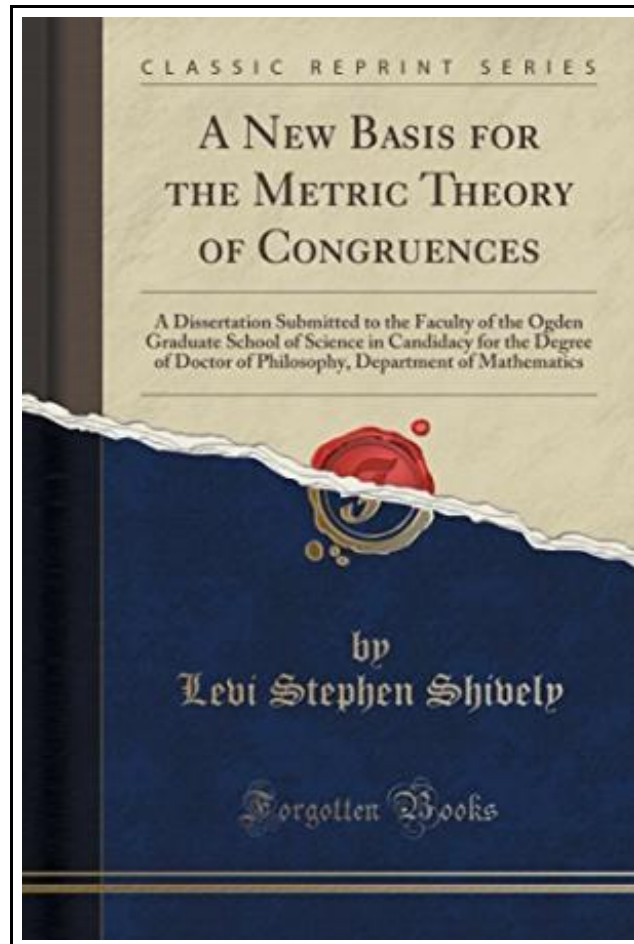


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from **A New Basis for the Metric Theory of Congruences: A Dissertation Submitted to 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 of certain local coordinate systems, all closely related to the general line of the congruence. These coordinate systems are used to study the properties of the congruence in the neighborhood of one of its lines, as well as the properties of its Laplacian transforms. Homogeneous cartesian coordinates are introduced in the second section and the equations (D) of the Wilczynski theory are derived. 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. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work,...

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