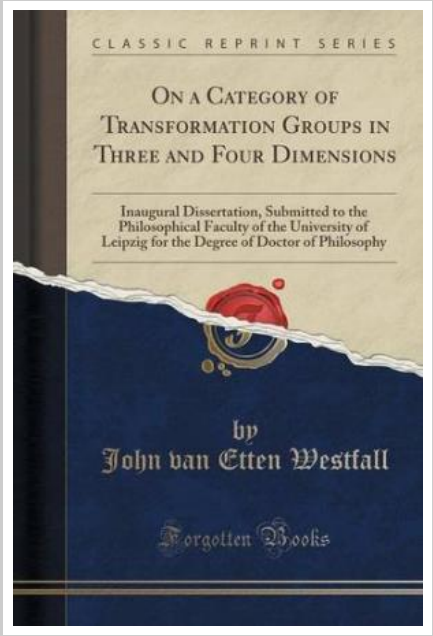

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On a Category of Transformation Groups in Three and Four Dimensions: Inaugural Dissertation, Submitted to the Philosophical Faculty of the University of Leipzig for the Degree of Doctor of Philosophy (Classic Reprint) (Paperback)

By John Van Etten Westfall

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from On a Category of Transformation Groups in Three and Four Dimensions: Inaugural Dissertation, Submitted to the Philosophical Faculty of the University of Leipzig for the Degree of Doctor of Philosophy Riemann, in his well known publication on the Hypothesen, welche der Geometrie zu Grunde liegen, started from his definition of an arc-element in a manifoldness of n dimensions, in which the quantity under the radical is always positive and then proceeded to the development of the conception of constant measure of curvature, which is perhaps the substantial result of the publication. Helmholtz on the contrary goes still further back and attempts to found Riemann s assumption. He makes his own assumptions and, from these as a base, he attempts to prove that all the transformations possible under his conditions have the invariant Lie in an article in the Leipziger Berichte, for October, 1886, notes inaccuracies in the development and points out that, under one interpretation of Helmholtz s axiom of unrestricted motion (freie Beweglichheit), his monodrom axiom is entirely superfluous, while under another interpretation, even...

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