



## A Brief Account of the Historical Development of Pseudospherical Surfaces

By Emily Coddington

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1905 edition. Excerpt: .point  $u, v$ , and whose radius is  $p$ , to be  $a^2 - u^2 - v^2 = p^2 \cosh^{-1} \frac{a^2 - u^2 - v^2}{a^2 - p^2} - S$  and by means of it he deduced that the expression for the linear element assumes one of the three different forms given by Dini,  $ds^2 = (du^2 + \sinh^2 dv^2)$ ,  $ds^2 = (du^2 + e^{2R} dv^2)$   $ds^2 = (du^2 + \cosh^2 p dv^2)$ , according as to whether the centers of the geodesic circumferences chosen for one family of parametric curves are real, at infinity or ideal, that is whether on the plane, the corresponding points lie within the limiting circle, on its perimeter or entirely without it. He also remarked upon the peculiar properties of the three types of geodesic circumferences, how, those of the third type with a common center are parallel to a geodesic curve, a property which belongs to all geodesic circles on a sphere, but which belongs only to...



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