



## Transformations of Surfaces (Classic Reprint)

By Luther Pfahler Eisenhart

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Transformations of Surfaces During the past twenty-five years many of the advances in differential geometry of surfaces in euclidean space have had to do with transformations of surfaces of a given type into surfaces of the same type. Before this period Bianchi and Backlund had established their transformations of a pseudospherical surface into pseudospherical surfaces, the essential feature of which is that a given surface and any transform are the focal surfaces of a W congruence. Furthermore, Bianchi (Lezioni, 383) established the so-called theorem of permutability of such transformations; that is, if  $S_t$  and  $S_t'$  are two transforms of  $S$  there can be found a fourth surface  $S$  which is a transform of both  $S_t$  and  $S_t'$ . Later (footnote 41) he showed that there is a similar theorem of permutability for transformations such that a given surface and a transform are the focal surfaces of a W congruence. In 1899 Guichard (f. 11. 100) announced two theorems concerning the deformations of a quadric of revolution which led to the transformations of Darboux of isothermic...



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