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## On the Conformal Representation of Plane Curves Particularly for the Cases $P = 4, 5,$ and $6$ (Classic Reprint) (Paperback)

By Charlotte Elvira Pengra

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from On the Conformal Representation of Plane Curves Particularly for the Cases  $P = 4, 5,$  and  $6$  In order to do this we must classify surfaces according to their deficiencies and treat each class separately. In the case  $p=0$  there are no cuts on the surface and no integrals of the first kind. Integrals of the second kind exist on all surfaces. Let us select one of these,  $w$ , which has a single algebraic infinity. The function  $w$  being of weight one assumes one and only one value corresponding to each point of the  $n$ -leaved surface  $F(x, y) = 0$ . These values, real and complex, may be represented by the points in a plane by the ordinary representation of complex numbers. The given  $n$ -leaved surface can then be conformally represented upon a plane by means of the real and complex values assumed by  $w$ . If  $p = 1$  two cuts are required to make the surface simply connected. We know that on any surface of deficiency  $p$ , there exist  $p$  linearly independent integrals of...



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