



## Plane Curves of the Eighth Order: With Two Real Four-Fold Points Having Distinct Tangents and with No Other Point Singularities (Classic Reprint) (Paperback)

By Elizabeth Buchanan Cowley

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Plane Curves of the Eighth Order: With Two Real Four-Fold Points Having Distinct Tangents and With No Other Point Singularities With Two Real Four-fold Points Having Distinct Tangents and with No Other Point Singularities. The purpose of this paper is the discussion of plane curves of the eighth order with two four-fold points having distinct tangents and with no other point singularities. The work can be conveniently arranged under four heads: 1. Possible forms of curves. 2. Existence. 3. Classification. 4. Relation to space curves. 1. Possible Forms of Curves. These plane curves of eighth order  $C$  with two four-fold points  $O$  and  $O'$  are of deficiency nine. Hence the number of branches cannot exceed ten.  $C$  can cut the line  $OO'$  at no points except  $O$  and  $O'$ . If there are odd branches, there must be an even number of them, since the curve is of even order. Each odd branch passes an odd number of times through one  $O$  and an even number of times through the other  $O'$ , for each odd...



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