



Resolution of Curve and Surface Singularities in Characteristic Zero: Volume 4 (Algebra and Applications)

K. Kiyek, J.L. Vicente

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The Curves The Point of View of Max Noether Probably the oldest references to the problem of resolution of singularities are found in Max Noether's works on plane curves [cf. [148], [149]]. And probably the origin of the problem was to have a formula to compute the genus of a plane curve. The genus is the most useful birational invariant of a curve in classical projective geometry. It was long known that, for a plane curve of degree n having l ordinary singular points with respective multiplicities r_i , $i \in \{1, \dots, m\}$, the genus p of the curve is given by the formula $= (n - l)(n - 2) - \sum r_i(r_i - 1) / 2 \cdot 2 \cdot L \dots \bullet \bullet$. Of course, the problem now arises: how to compute the genus of a plane curve having some non-ordinary singularities. This leads to the natural question: can we birationally transform any (singular) plane curve into another one having only ordinary singularities? The answer is positive. Let us give a flavor (without proofs) on how Noether did it. To solve the problem, it is enough to consider a special kind of Cremona transformations, namely quadratic transformations of the projective plane. Let \sim be a linear system of conics with three non-collinear base points $r = \{A_0, A_1, A_2\}$ and take a projective frame of the type $\{A_0, A_1, A_2; U\}$.



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