



# 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  $l$   $m$  ordinary singular points with respective multiplicities  $r_i$ ,  $i \in \{1, \dots, m\}$ , the genus  $g$  of the curve is given by the formula  $g = \frac{(n-1)(n-2)}{2} - \sum_{i=1}^m \binom{r_i-1}{2}$ . 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  $\mathcal{L}$  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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