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Parts I and II were devoted to an algebraic study of the field $K(\sqrt{K^*})$ obtained by adjoining, to a field K of characteristic zero, the group $\sqrt{K^*}$ of all “radicals” over K . Also, it was suggested that the results obtained might find applications in computer algebra. The present lecture speculates on the form these applications might take, and it reports on a number of algorithmic results that have been achieved. (Received April 05, 2005)