

论文

A MECHANIZATION METHOD OF GEOMETRY AND ITS APPLICATIONS III. MECHANICAL PROVING OF POLYNOMIAL INEQUALITIES AND EQUATION-SOLVING

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摘要 This is the third paper of the series entitled "A mechanization method of geometry and its applications", cf. [WU3—5]. In the present paper it is shown how inequalities can be proved by means of the author's Zero Decomposition Theorem of equations solving. Numerous examples are given which deal with definiteness of polynomials, inequalities between symmetric polynomials, trigonometrical inequalities, and geometric inequalities.

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