

Statements of Facts
Regarding the New Science
of Mutation Mechanics

1. It unifies the geometric field: Projective, college, and Analytic geometry. In analytic geometry there is no necessity for a rotation of axes to simplify conic equations. It localizes all conics with respect to the original axes.
2. It solves linear systems of equations from the Mutation Standpoint in which all the unknowns are obtained at the same time. There is no inversion of the coefficient matrix. The values of all the unknown may be found practically as easily as any one unknown.
3. It finds eigen vectors of matrices without first finding eigen values. If one desires the eigen values they are found from the eigen vectors. To find the eigen vectors of a matrix, no matter how large, one has only to solve a system of quadratics which computerwise is not a difficult matter. If one goes the other way; finding eigen values first, it develops the eigen equation without the expansion of the matrix which is quite a task if the matrix is large.

An abstract of a presentation of the New Science before the Ohio Section of the Mathematical Association of America may be seen in the Aug-Sept. Issue of the American Mathematical Monthly p 645 (1959).

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