The numerical range of non square matrices

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Abstract

A presentation of numerical range for rectangular matrices is undertaken in this paper, introducing two different definitions and elaborating basic properties. Then we are extended to the treatment of rank-k numerical range.

Keywords

Numerical range, Projectors, Matrix norms, Singular values.

References


Li, C.K., Y.T. Poon, and N.S. Sze. Condition for the higher rank numerical range to be non-empty. *Linear Multilinear Algebra*. To appear.

