

On bounds and localization results for the eigenvalues of structured matrices

Juan M. Peña

University of Zaragoza, Spain

Abstract

Nonsingular classes of matrices lead to localization results of the eigenvalues of a matrix. These localization result will be in turn more useful when applied to special classes of matrices (see [1-4]). We illustrate with new results the previous fact. We also present bounds for the eigenvalues of structured classes of matrices.

Keywords

Gerschgorin disks, Nonsingularity criteria, Positive matrices, M-matrices, Totally positive matrices, Eigenvalues location, Exclusion sets.

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