A PARAMETERIZED LOWER BOUND FOR THE SMALLEST SINGULAR VALUE

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Abstract. This paper presents a parameterized lower bound for the smallest singular value of a matrix based on a new Geršgorin-type inclusion region that has been established recently by these authors. The comparison of the new lower bound with known ones is supplemented with a numerical example.

Key words. Eigenvalue, Inclusion region, Smallest singular value, Lower bound.

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