Mathematical
Inequalities
& Applications
Volume 13, Number 3 (2010), 537–554

MULTIPLICATIVE PERTURBATION BOUNDS FOR WEIGHTED UNITARY POLAR FACTOR

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Abstract. The multiplicative perturbation bounds for weighted unitary polar factor are considered in the weighted unitary invariant norm, weighted spectral norm, and weighted Frobenius norm in this paper. As the special cases, new bounds for subunitary and unitary polar factor are also derived. These new bounds improve the corresponding results published recently to some extent.

Mathematics subject classification (2010): 15A45, 65F35.
Keywords and phrases: Weighted polar decomposition, weighted unitary polar factor, singular value decomposition, perturbation bound.

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