NORM AND NUMERICAL RADIUS INEQUALITIES FOR A PRODUCT OF TWO LINEAR OPERATORS IN HILBERT SPACES

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Abstract. The main aim of the present paper is to establish some norm and numerical radius inequalities for the composite operator BA under suitable assumptions for the transform $C_{\alpha,\beta}(T) := (T^* - \overline{\alpha}I)(\beta I - T)$, where $\alpha, \beta \in \mathbb{C}$ and $T \in B(H)$, of the operators involved.

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