ON SOME INEQUALITIES FOR THE APPROXIMATION NUMBERS IN BANACH ALGEBRAS

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Abstract. In this paper, we generalize some inequalities for the approximation numbers of an element in a normed (Banach) algebra $X$ and, as an application, we present inequalities for the quasinorms of some ideals defined by means of the approximation numbers.

In particular, if $X = L(E)$ - the algebra of linear and bounded operators $T : E \to E$, where $E$ is a Banach space, we obtain inequalities for certain quasinorms of operators.

References


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