NORM ESTIMATES FOR SOLUTIONS OF MATRIX EQUATIONS $AX - XB = C$ AND $X - AXB = C$

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Abstract

Let $A$, $B$ and $C$ be matrices. We consider the matrix equations $Y - AYB = C$ and $AX - XB = C$. Sharp norm estimates for solutions of these equations are derived. By these estimates a bound for the distance between invariant subspaces of matrices is obtained.

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References


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