Turkish Journal of Mathematics

Turkish Journal	On the Theory of a Certain Class of Quadratic Pencils of Matrices and Its Applications
of	G.Sh. GUSEINOV, G. OTURANÇ
Mathematics	Abstract: This paper is devoted to the study of the properties of eigenvalues and eigenvectors of quadratic pencil $\bullet^2 C - \bullet R - J$, where C is a positive diagonal matrix, R is an arbitrary real diagonal matrix, J is a ,, tridiagonal" real symmetric and positive matrix. The obtained results are then used to solve the corresponding system of differential equations with boundary and initial conditions. Kev Words: Quadratic pencijs, eigenvalues, eigenvectors.
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