A NEW COMPLEX NON-HERMITIAN (2 × 2) MATRIX UNDER DIFFERENT NATURE OF REAL EIGENVALUES : INVERSE NATURE

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We propose a new complex non-hermitian matrix and discuss its different nature of real eigenvalues numerically on selective choice of parameters. Interestingly we notice on certain choice of parameters eigenvalues can be made inverse of each other

.MSC nos-

    40 C05 -Matrix Methods

    15 Bxx-Special Matrices

    15 A12-Conditioning of Matrices

    57 Q55-Approximations

    97 N40-Numerical Analysis

Key words- Complex matrix, Non-hermitian, real eigenvalues, inverse eigenvalues.