

ABSTRACT

MATRIX TRANSFORMATION FROM THE SECOND DIFFERENCE SEQUENCE SPACE DELTA ONE, DELTA TWO, AND DELTA THREE TO THE SECOND SEQUENCE SPACE

by

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In this study, the necessary and sufficient conditions are presented so that the transformation of the matrix is linearly continuous from the second difference sequence space delta one, delta two, and delta three to the sequence space of a second-order sequence. Furthermore, some examples are given as an application.

Key words: *matrix transformation, difference sequence space $\ell_2(\Delta_1)$, $\ell_2(\Delta_2)$, $\ell_2(\Delta_3)$, second sequence space (ℓ_2).*

ABSTRAK

TRANSFORMASI MATRIKS DARI RUANG BARISAN SELISIH TINGKAT DUA DELTA SATU, DELTA DUA, DAN DELTA TIGA KE RUANG BARISAN TINGKAT DUA

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Pada kajian ini disajikan syarat perlu dan cukup supaya transformasi matriks bersifat linear kontinu dari ruang barisan selisih tingkat dua delta satu, delta dua, dan delta tiga ke ruang barisan barisan tingkat dua. Selanjutnya diberikan beberapa contoh sebagai penerapannya.

Kata kunci: *transformasi matriks, ruang barisan selisih $\ell_2(\Delta_1), \ell_2(\Delta_2), \ell_2(\Delta_3)$, ruang barisan tingkat dua (ℓ_2).*