

$$\eta_k = [DF(\cdot) - g\lambda_k DH(\cdot)]\eta_k. \quad (1)$$

$\eta_k \in \mathbb{R}^n$, $k = 1, \dots, N$. G is a matrix defined by $G = [g\lambda_k]$.

$$\eta = [DF(\cdot) - \alpha DH(\cdot)]\eta. \quad (2)$$

$\Psi(\alpha)$ is a function of α . H is a matrix. λ_k is a scalar. $\Psi_* = \Psi(g\lambda_k)$. $\Psi_* > 0$.

$$x_i = -(+), \quad = x_i + 0, \quad = 0. + (\epsilon -). \quad (3)$$

$d = \dots$, $X = \dots$. $\Psi(\alpha)$ is a function of α . $\alpha \rightarrow 0^+$. $\Psi(\alpha)$ is a function of α . $\alpha \approx 4.1$. N is a scalar. $\{a_i\}_{i=1}^N$ is a vector. G is a matrix.

$$G = \begin{pmatrix} b_1 & -a_1 & 0 & 0 & \cdots & 0 & -a_N \\ -a_1 & b & -a & 0 & \cdots & 0 & 0 \\ 0 & -a & b & -a & \cdots & 0 & 0 \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ -a_N & 0 & 0 & 0 & 0 & -a_{N-1} & b_N \end{pmatrix}, \quad (4)$$

$$b_i = (a_{i-1} + a_i), \quad i = 1, \dots$$

Handwritten musical notation on a page with a diagonal black shadow. The notation includes various notes, rests, and dynamic markings. Key elements include:

- Dynamic markings: g , $g = 1.4$, $(\alpha = 4.4)$, $i \approx$
- Alphabetic characters: E , G , x_i
- Mathematical symbols: $()$, $\{ \}$, \approx
- Other markings: φ , \uparrow , \downarrow , \sim

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$b_{\xi}(\xi) - \dots k_{\xi} \sim E_j(\dots)$
 (\dots)
 (\dots)