



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

$$G = \begin{pmatrix} \eta_k & \epsilon & k & \dots & \eta_k \\ \dots & \dots & \dots & \dots & \dots \\ \dots & \dots & \dots & \dots & \dots \end{pmatrix} \quad (2)$$

$$\eta = [DF(\cdot) - \alpha DH(\cdot)]\eta. \quad (3)$$

$$\begin{aligned} & \Psi(\alpha) \\ & H \\ & \lambda_k \\ & \Psi_* = \dots k \Psi(g\lambda_k) \\ & \Psi_* > 0 \\ & x_i = -(+), \quad x_i = +0, \\ & = 0. + x(-). \end{aligned} \quad (4)$$

$$\begin{aligned} & d = \dots X = \\ & \Psi(\alpha) \\ & \alpha \rightarrow 0^+ \\ & \Psi(\alpha) \\ & \alpha \approx 1 \\ & N \\ & \{a_i\}_{i=1}^N \quad G \end{aligned}$$

$$G = \begin{pmatrix} b_1 & -a_1 & 0 & 0 & \dots & 0 & -a_N \\ -a_1 & b & -a & 0 & \dots & 0 & 0 \\ 0 & -a & b & -a & \dots & 0 & 0 \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ -a_N & 0 & 0 & 0 & 0 & -a_{N-1} & b_N \end{pmatrix}, \quad (5)$$

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



$b_{k+1}(\xi) = \dots k_{k+1} \cdot E_j(\dots)$

