

$$\Delta\varphi_n = 0; \quad \left. \frac{\partial\varphi_n}{\partial n} \right|_{S_1} = w_n; \quad \left. \frac{\partial\varphi_k}{\partial n} \right|_{S_i, S_o} = 0,$$

$$w_n = \dots, S_1 = \dots, S_i, S_o = \dots;$$

$$\mathbf{L}\{\vec{U}_n\} = \rho h \frac{\partial^2 \vec{U}_n}{\partial t^2} + \mathbf{P}.$$

$$\omega^2 \left(E + \frac{\rho_l L}{\rho h} \Lambda \right) \{\alpha\} - \omega \frac{\rho_l L V}{\rho h L} \Lambda^1 \{\alpha\} + \Omega_d \{\alpha\} = 0. \quad (1)$$

$$\Omega_w = \left(E + \frac{\rho_l L}{\rho h} \Lambda \right)^{-1} \Omega_d; \quad \Lambda^{1w} = \frac{\rho_l L V}{\rho h L} \left(E + \frac{\rho_l L}{\rho h} \Lambda \right)^{-1} \Lambda^1. \quad (1)$$

$$\omega^2 \{\alpha\} - \omega \Lambda^{1w} \{\alpha\} + \Omega_w \{\alpha\} = 0.$$

$$\begin{pmatrix} 0 & E \\ -\Omega_w & \Lambda^{1w} \end{pmatrix} \begin{pmatrix} \alpha \\ \omega\alpha \end{pmatrix} = \omega \begin{pmatrix} \alpha \\ \omega\alpha \end{pmatrix}. \quad (2)$$

(2)

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