

[1,2].

θ [3].

$$\theta = 4,15 \times 10^3 \left(\frac{99325 \times 100}{\varphi \cdot p} \right)^{-1}, \quad (1)$$

φ –

, %; p –

[4].

(1),

[3].

$$\Delta x = x_{n+1} - x_n,$$

$$\Delta \tau = \tau_{k+1} - \tau_k.$$

($T' \theta'$

$\tau + \Delta \tau$) [3]:

$$\begin{cases}
 q_n = \frac{T_n - T_{n+1}}{\Delta x} \lambda_e(T_n, \theta_n); \\
 q_{mn} = \frac{\theta_n - \theta_{n+1}}{\Delta x} \lambda_m(T_n, \theta_n) T_n \frac{\delta_T(T_n, \theta_n)}{c_m(T_n, \theta_n)} \delta(T_n, \theta_n); \\
 T'_n = T_n + \frac{\Delta \tau [(q_n + q_{mn}) - (q_{n+1} + q_{mn+1})]}{c(T_n, \theta_n) \rho(T_n, \theta_n)}; \\
 j_n = \frac{\theta_n - \theta_{n+1}}{\Delta x} \lambda_m(T_n, \theta_n); \\
 j_{Tn} = \frac{T_n - T_{n+1}}{\Delta x} \lambda_m(T_n, \theta_n) \frac{\delta_T(T_n, \theta_n)}{c_m(T_n, \theta_n)}; \\
 \theta'_n = \theta_n + \frac{\Delta \tau [(j_n + j_{Tn}) - (j_{n+1} + j_{Tn+1})]}{c_m(T_n, \theta_n) \rho_0(T_n, \theta_n)}
 \end{cases} \quad (3)$$

m, δ_T , δ

$$u = f(T, \theta)$$

$$h = f(T, \theta).$$

[3]

$$(2 \cdot Fo_q - 1) < 0 \quad (2 \cdot Fo_j - 1) < 0,$$

$$Fo_q \quad Fo_j -$$

(3)

$$\Delta \quad \Delta \tau.$$

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