

1. 諸言

2. 解析

$$\beta = \left(\frac{r}{2} + \frac{\pi}{4r} \right) \exp \left(\frac{r}{\sqrt{\pi}} \right) + 0.5 \exp(-r^2/\pi) \quad (1), \quad \text{где } L \quad r = \sqrt{2k_1 \{ (1-\beta)C_{02} + C_c + k_2/k_1 C_{02} + k_3/k_1 C_{02} \}}$$
$$Q = Q_L + Q_g = h_L(T_w - T_b) \cdot S_L + h_g(T_w - t_b) \cdot S_L + N_o (\sigma_i C_{p_{\text{cow}}} T_w - C_{p_{\text{ob}}} t_b) \cdot S_L \quad (3)$$
$$\frac{dT_b}{d\theta} = \{Q_L + \sum_i \Delta H_i R_i + Q_{mix} + Q_R\} / \sum_i W_i C_{pi} \quad (9)$$

[記号] t_c : 平均接触時間 [1/sec], C_i : 濃度 [$\text{kg} \cdot \text{mole} / (\text{l} \cdot \text{g})$]

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