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(1,25).

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[1]

$$v(D) = \frac{2}{3\pi} \delta^4 D^3 K_1(\delta D) \tag{1}$$

, D - , K_1 -

[2,3].

$$m_i \frac{d\vec{U}_i}{d\tau} = \pm m_i \vec{g} - C_{Di} \psi(D)_i f_i \rho \frac{|\vec{U} - \vec{W}|}{2} \tag{2}$$

m_i - i -
 $v(D)$; \vec{U} - ; C_{Di} -
 ; $(D)_i$ - ; f_i -
 ; - ; \vec{W} -

$$\frac{\partial t}{\partial \tau} = a \left(\frac{\partial^2 t}{\partial r^2} + \frac{2}{r} \frac{\partial t}{\partial r} \right), \quad (3)$$

a — , r — , —

$$dq_{i,j} = c_p \rho dv_{i,k} (\bar{t}_{i,2} - \bar{t}_{i,1}), \quad (4)$$

$$dm_{i,j} = \beta_p df_{i,k} (p_{j,0} - p_{i,0}), \quad (5)$$

$dv_{i,k}$ $df_{i,k}$ — i — ,
 k — ; t —
 β — ; —

$$(1 - 5) \quad (1-2) -$$

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