$$\frac{dc_{1}}{dt}$$

$$\rho C_{p} \frac{dT}{dt} = \nabla \cdot (\lambda \nabla T) + Q \qquad \frac{dc_{t}}{dt} = kc_{m}(n - c_{t}) - p c_{t}$$

$$\frac{c_{m}^{-}}{S^{-}} = \frac{c_{m}^{+}}{S^{+}} \qquad -\lambda \nabla T \cdot \mathbf{n} = h(T - T_{\text{ext}}) \qquad c_{m} = S(T)\sqrt{P}$$

$$O(m) = R_{m}$$

$$O(m) = R_{m}$$

 $\frac{dc_{\rm m}}{dt} = \nabla \cdot (D(T)\nabla c_{\rm m}) + \Gamma - \sum \frac{dc_t}{dt}$ 

$$\frac{d^{\frac{m+1}{N+1}}}{dt} = \sum_{i=0}^{N} u_i \phi_i(x, y, z) \qquad c_{\max} = \frac{\varphi_{imp} R_p}{D} + \sqrt{\frac{\varphi_{imp}}{K_r}}$$

 $-D(T)\nabla c_{\mathbf{m}} \cdot \mathbf{n} = K_r c_{\mathbf{m}}^2$ 

 $c_{\rm m} = S(T)\sqrt{P}$ 

$$T_{\mathrm{ext}}$$
)
 $c_{\mathrm{max}} = \frac{\varphi}{-}$ 

$$\frac{dc_{t}}{dt} = k$$

$$-T_{\text{ext}}$$

$$c_{\text{max}} = c_{\text{max}}$$