



4 populations OF = RT D (RT DE + WE) + W(RTDE + WE) Oa E = RT DE + Ua E OE = RT DE + UE = RT(R 2 T 2E + RT 2E + E + L2E) + LRT 2E + L7E = RTn +RT 2U + uE with 34 = 4 37 = 30 = 0 RT(RT+U+2+12)+12RT+2V+122  $\frac{\partial \mathcal{E}}{\partial x} = \frac{\partial x}{\partial x} + \alpha = \frac{\partial x}{\partial x} + \alpha$   $\frac{\partial x}{\partial y} = \frac{\partial x}{\partial x} + \alpha$  $RT (RT + U + \frac{u^2}{2} + 2u^2) + u^2U + u^2\frac{u^2}{7}$ \$ 12 + 12 U + 12 T + 12 U + 12 U + 12 U2  $\frac{\partial^2 E}{\partial u^2} = \frac{\partial}{\partial u} \left( C_V \frac{\partial T}{\partial u} + u \right) = C_V \frac{\partial^2 T}{\partial u^2} + \Lambda$ H= U+B (H+ ~2) ~  $= \bigcup_{\alpha} + \frac{\alpha^2}{2} + \frac{9}{9} + \frac{1}{9} + \frac{$ (+1+ 2) p+ 4 = E u + pu  $\left(H + \frac{u^2}{2}\right) \left(R + \frac{1}{4}\right) + \frac{2}{4}$ = Eu+RTu same if  $\frac{\partial U}{\partial u} = 0$ 

$$\mu = \left(\frac{1}{\alpha} - \frac{1}{2}\right) p \delta r \quad V = \frac{\mu}{\rho} = \left(\frac{\Lambda}{\alpha} - \frac{r}{2}\right) R T \delta t \quad \frac{r}{\omega} + \frac{\Lambda}{\lambda} = \frac{D}{R T \delta t}$$

$$C = \frac{\Lambda}{R T \delta t} + \frac{1}{2} = \frac{2R T \delta t}{R c}$$

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