

Het a salt balances:

$$V_{p} \frac{dT_{p}}{dt} = C_{p}^{T} \left(T_{p}^{q} - T_{p}\right) + |\Psi|(T_{e} - T_{p})$$

$$V_{e} \frac{dT_{e}}{dt} = C_{e}^{T} \left(T_{e}^{q} - T_{e}\right) + |\Psi|(T_{p} - T_{e})$$

$$V_{p} \frac{dS_{p}}{dt} = C_{p}^{S} \left(S_{p}^{q} - S_{p}\right) + |\Psi|(S_{e} - S_{p})$$

$$V_e \frac{dS_e}{dt} = C_e^S (S_e^q - S_e) + |\psi| (S_p - S_e)$$

Realists Juins: Te-T9>0

Sq - Sq > 0

Assne. Cp \(\alpha \) \(V_p \) Ce \(\alpha \) \(V_e \)

$$C_p \(\alpha \) \(V_p = C_e^T / V_e \)

R_- = C_p \(/ V_p = C_e^T / V_e \)$$

$$R_{5} = \frac{C_{\gamma}}{V_{\rho}} = \frac{C_{e}}{V_{e}}$$

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$$\begin{split} & = \quad \begin{array}{l} \mathcal{F} = \quad \end{array} \end{array} \end{array} \end{array} \begin{array}{l} \mathcal{F} = \quad \begin{array}{l} \mathcal{F} = \quad \begin{array}{l} \mathcal{F} = \quad \end{array} \end{array} \begin{array}{l} \mathcal{F} = \quad \begin{array}{l} \mathcal{F} = \quad \end{array} \end{array} \begin{array}{l} \mathcal{F} = \quad \begin{array}{l} \mathcal{F} = \quad \end{array} \end{array} \begin{array}{l} \mathcal{F} = \quad \begin{array}{l} \mathcal{F} = \quad \end{array} \end{array} \begin{array}{l} \mathcal{F} = \quad \begin{array}{l} \mathcal{F} = \quad \end{array} \begin{array}{l} \mathcal{F} = \quad \mathcal{F} = \quad \end{array} \begin{array}{l} \mathcal{F} = \quad \mathcal{F} = \quad \end{array} \begin{array}{l} \mathcal{F} = \quad \mathcal{F} =$$

$$\frac{dI}{dt} = -R_{T}T - \delta |\widetilde{\psi}| \left(\frac{v_{e} + v_{p}}{v_{e}v_{p}}\right) T$$

$$\frac{dS}{dt} = -R_{S}S - \delta |\widetilde{\psi}| \left(\frac{v_{e} + v_{p}}{v_{e}v_{p}}\right) S$$

$$\frac{dS}{dt} = -R_{S}S - \delta |\widetilde{\psi}| \left(\frac{v_{e} + v_{p}}{v_{e}v_{p}}\right) S$$

$$\frac{dS}{dt} = -T + \alpha_{S}S, \quad \eta = T_{p}^{\alpha} - T_{e}^{\alpha}, S = S_{r}^{\alpha} - S_{e}^{\alpha}$$

$$\frac{dS}{dt} = -T + \alpha_{S}S + \frac{dS}{dt} = R_{T}$$

$$\frac{dS}{dt} = -T - \frac{\delta}{R_{T}} = \frac{dT}{dt} + \frac{\delta}{R_{T}} = \frac{dT}{dt} + \frac{\delta}{R_{T}} = \frac{dT}{R_{T}} + \frac{\delta}{R_{T}} = \frac{dT}$$

alm tem becomes:

$$\left| \widetilde{\uparrow} + \widetilde{\varsigma} \right| \widetilde{\frac{\gamma}{\varsigma}}$$

$$= \frac{dT}{d\tau} = -T + \eta_1 - |\tilde{\tau}_1 + \tilde{s}|\tilde{\tau}_1$$

$$= \frac{d\widetilde{\tau}}{d\tau} = -\widetilde{\tau} + \frac{2\eta}{\eta} - |\widetilde{\tau} + \widehat{\varsigma}|\widetilde{\tau}.$$

$$\frac{d}{d\tau} = \frac{-R_s}{R_T} S + \frac{R_s}{R_T} \eta_2 - |\hat{T} + \hat{S}| \frac{\hat{S}}{S_s}$$

$$\frac{d\widetilde{S}}{d\tau} = -\frac{R_s}{R_\tau} \widetilde{S} + \frac{R_s}{R_\tau} S_s \eta - |\widehat{\tau} + \widehat{S}| \widetilde{S}$$

$$\begin{array}{cccc}
\widehat{T} \to T & (\overline{7}) & \frac{R_s}{R_{\overline{7}}} \to \eta_3 \\
\widehat{S} \to -S & (-\overline{S}) & S_{\overline{7}}\eta_1 \to \eta_1 \\
T \to t & \frac{R_s}{R_{\overline{7}}} S_s \eta_2 \to -\eta_2
\end{array}$$

$$\frac{dT}{dt} = \eta_1 - T(1+|T-S|) \qquad T = Te - T_p$$

$$\frac{dS}{dt} = \eta_2 - S(\eta_3 + |T-S|) \qquad S = S_e - S_p$$