$$\left|\frac{2C_{+h}}{2T_{B}}\right|\Delta T_{B} = \frac{c_{B}m_{B}(T_{H}-T_{B})-\left(c_{A}m_{A}(T_{A}-T_{B})+c_{B}m_{B}(T_{B}-T_{B})\right)\cdot(m)}{(T_{H}-T_{B})^{2}}$$

$$= \left| \frac{C_{A}M_{A}(T_{A}-T_{B})}{(T_{M}-T_{B})^{2}} \right|$$

$$C_{A} = \frac{\left(c_{B}m_{B} + C_{H}\right)\left(T_{M} - T_{B}\right)}{m_{A}\left(T_{A} - T_{H}\right)}$$

$$\left|\frac{\partial C_{A}}{\partial C_{UL}}\right| \Delta C_{UL} = \left|\frac{\Delta C_{UL}\left(T_{M} - T_{B}\right)}{m_{A}\left(T_{A} - T_{H}\right)}\right|$$

$$\left|\frac{\partial C_{A}}{\partial m_{A}}\right| \Delta m_{A} = \left|\frac{C_{A}}{m_{A}}\right| \Delta m_{A}$$

$$\left|\frac{\partial C_{A}}{\partial m_{B}}\right| \Delta m_{B} = \left|\frac{C_{B}}{m_{A}}\right| \Delta m_{B} \left(T_{H} - T_{B}\right)$$

$$\left|\frac{\partial C_{A}}{\partial m_{B}}\right| \Delta T_{A} = \left|\frac{C_{A}}{m_{A}}\right| \Delta T_{A}$$

$$\left|\frac{\partial C_{A}}{\partial T_{A}}\right| \Delta T_{A} = \left|\frac{C_{A}}{m_{A}}\right| \Delta T_{A}$$

$$\left|\frac{\partial C_A}{\partial \nabla_B}\right| \Delta \nabla_B = \left|\frac{C_A \Delta T_B}{(T_M - \overline{I_B})}\right|$$

$$\left|\frac{\partial C_A}{\partial T_M}\right| \Delta T_M = \left(c_B m_B + C_{IR}\right) \Delta T_M \cdot \frac{1_{M_A} (T_A - T_N) - (T_M - T_B) \cdot (-m_A)}{m_A'}$$

$$= \left(c_B m_B + C_{IR}\right) \Delta T_M \cdot \frac{T_A - T_B}{m_A}$$