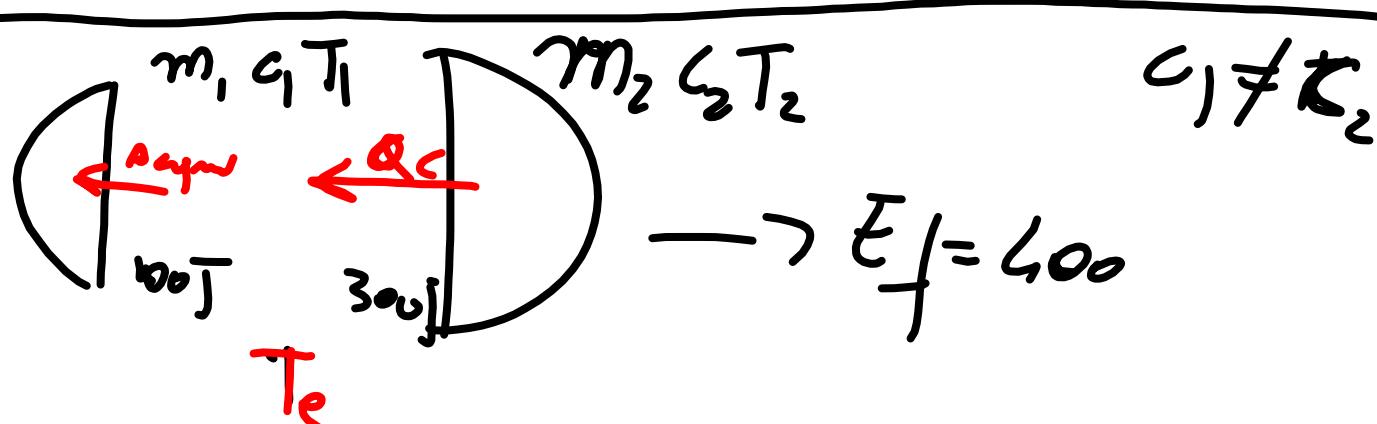


$m_1 c_1 T_1 + m_2 c_2 T_2 = (m_1 + m_2) \cdot c_f T_e$
 $T_e = \frac{m_1 T_1 + m_2 T_2}{m_1 + m_2} = \frac{(70 \cdot 20 + 40 \cdot 80)}{(70 + 40)} = 41,8^\circ$

$m_1 = 70 \text{ kg } H_2O \text{ a } 20^\circ$
 $m_2 = 40 \text{ kg } H_2O \text{ a } 80^\circ$
 $T_{eq} = ?$
 $T_1 < T_e < T_2$



$m_1 c_1 (T_e - T_1) = m_2 c_2 (T_2 - T_e)$

$m_1 c_1 T_e - m_1 c_1 T_1 = m_2 c_2 T_2 - m_2 c_2 T_e$

$m_1 c_1 T_e + m_2 c_2 T_e = m_1 c_1 T_1 + m_2 c_2 T_2$
 $E_f \quad E_1 + E_2$

$T_e (m_1 c_1 + m_2 c_2) =$

$T_e = \frac{m_1 c_1 T_1 + m_2 c_2 T_2}{m_1 c_1 + m_2 c_2}$

$m_1 = 70 \text{ kg } H_2O \text{ a } 20^\circ + m_2 = 40 \text{ kg } a 80^\circ \rightarrow 41,8$

$m_1 = 70 \text{ kg } H_2O \text{ a } 20^\circ + m_2 = 40 \text{ kg } Fe \text{ a } 80^\circ \rightarrow T_e$

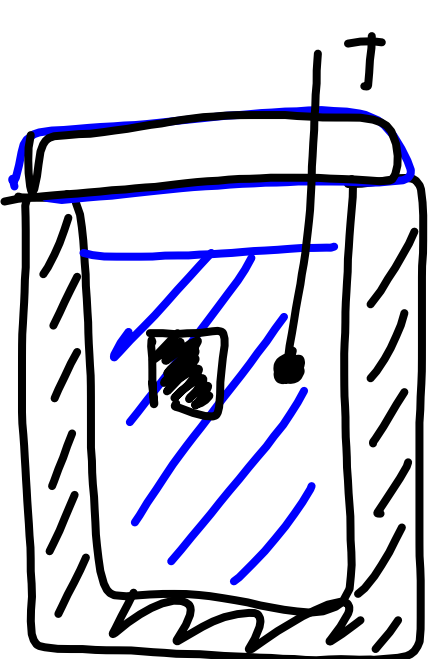
$c_1 = 4186 \text{ J/kgK}$
 $c_2 = 480 \text{ J/kgK}$
 $T_e = \frac{(70 \cdot 4186 \cdot 20 + 40 \cdot 480 \cdot 80)}{(70 \cdot 4186 + 40 \cdot 480)} = 23,13^\circ$

8, 11, 12, 13, 17 pg 362 x Remains

$C = \frac{\Delta E}{\Delta T} = m c$
 $m \rightarrow \text{Bil}$
 $F \rightarrow \text{din}$
 $V \rightarrow \text{Term}$

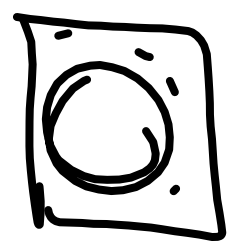
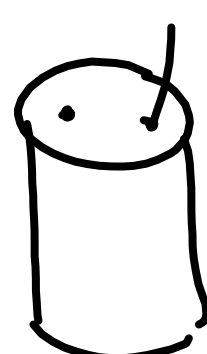
$C = 1 \text{ cal/g}^\circ C = 4,186 \text{ J/g}^\circ C$
 $C_{Fe} = 0,11 \text{ cal/g} = 0,48 \text{ J/g}^\circ C$
 $C_{...} =$
 $C_{Fe} =$

$C = ?$ Colorimetro Delle Mesoleone



$m_{H_2O} c_1 T_1$
 $m_2 c_2 T_2$
 T_{BER}
 $1 \text{ cal/g}^\circ C$

Pg 372



$CIAO$