

$$\dot{m}_{\alpha}C_{p\alpha}(T_3-T_1) = \frac{1}{R}(T_2-T_3) + \frac{1}{R}(T_2-T_3) + \frac{1}{R_i}(T_i-T_3)$$

MwCpw+1 -1	0 0	T <sub>2</sub>	mw Cpw To
-I macpa PR	$\frac{1}{R_i}$ 0	T <sub>3</sub> =	ma CpaT, +Te+Ti Re ki
-mwCpw O	m <sub>w</sub> Cpw O	T4	ψ̈́ω
O - macpa	o macpa	Ts	Q'a