OBJECTIVE: To train a building model to estimate heating or cooling load. NETWORK: (ONE FLOOR) R3 Cc Ci Perimeter Care Int. Exterior walls. zones. wall Q1: 9 Sol (1-W) + 9146, had /2 Q2: 9146, conv * Ap = perimeter 9149, rad /2 zone area * Ac = core zone 9 IHG, core. area. Vsol, VING, = 9 load = Em Cp (DT) Quitput = in Cp (Tp - Tderiver) + in Cp

Equations: Ce dTe = Tont - Te + Tp-Te + Prod (1-W) + QIMAXAproly CpdTp = Te-Tp + Tout-Tp + Ti-Tp + 9,146 xAp x 0.6

Ruin R3 $\frac{C_{i}}{dt} = \frac{T_{p} - T_{i}}{R_{3}} + \frac{T_{c} - T_{i}}{R_{4}} + \frac{q_{ing} \times A_{p} \times 0.4 + q_{salt} W}{2}$ $+ q_{ing} \times A_{p} \times 0.4 + q_{salt} W$ $C_c \frac{dT_c}{dt} = \frac{T_i - T_c}{R_4} + \frac{q_{1HG} \times A_{core} \times 0,87}{R_4}$ \$ Ap - philipping A SISP E ALLES SAN X $\frac{-1-1}{C_e R_1} \frac{1}{C_e R_2} \frac{1}{C_e R_2} = 0$ Te Te $\frac{1}{c_{p}R_{2}} \frac{1}{c_{p}} \left(\frac{-1}{R_{2}} \frac{-1}{R_{3}} \frac{-1}{R_{min}} \right) \frac{1}{c_{p}R_{3}}$

