TYPE 690: ENERGY RATE LOADS CONVERSION

General Description

This subroutine models the temperature and humidity level of a simple building zone subject to infiltration effects, ventilation effects, skin losses, internal heat and mass gains, and conductive and convective exchanges with adjacent zones. The model uses two differential equations to solve for the heat and mass balances at each time step. This model is unique in that the user may operate the building in one of two unique control modes. In the first mode, the user controls the temperature and humidity of the zone externally through the control of the ventilation flow stream. This method of control is termed temperature level control and requires that the user typically set the available heating, cooling, humidifying and dehumidifying capacities to zero.

In the second mode, the temperature and humidity are ideally controlled inside the model to maintain user specified set points. The model then outputs the energies that were required to maintain these set points. This method of control is often termed energy rate control. See the discussion on energy rate control in the main TRNSYS manual for more details about this topic.

Nomenclature

Detailed Description

Documentation for this component has not yet been completed.

Example

Type690 is used in an example that can be found in:
" ..\trnsys16\TESS Models\Studio Projects\Loads and Structures Library\Energy Rate Control Building.tpf"