

MODELING OF DISTRIBUTED PARAMETER SYSTEM

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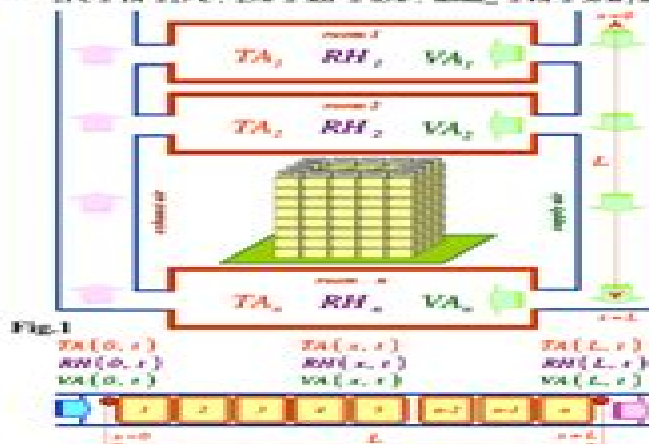
Abstract – in this paper is presented an analytical model of the temperature in HVAC-system for buildings conditioning based on partial differential equation of *Newton-Richman*. Submitted is a solution of the equation by using the *Green's functions* method. On the basis of the solution analytically are described the stationary and non-stationary working states of modeled plant with distributed parameters – the temperature in HVAC-system. The dynamic system model is simulated in a change range of the basic parameters according to the accepted standards of comfort. Visualized and analyzed are the characteristics specificities, from which derive the temperature in the building conditioning system as a typical control plant with distributed parameters.

Keywords – partial differential equations, method of *Green's functions*, analytical models of distributed parameters systems, distributed characteristics in stationary and non-stationary regime

1. INTRODUCTION

The values, characterizing the climate in premises (residential, offices, industrial or warehouses) of HVAC (*Heating, Ventilating and Air-Conditioning*)-system (Fig.1) for building conditioning are: • *temperature* TA of the supply air in the building; • *relative humidity* RH of the air, related with TA ; • *exchange rate (velocity)* VA of the air in the building rooms. Their values are conformable to the corresponding health and hygiene standards of comfort.

$$17^{\circ}\text{C} \leq TA \leq 27^{\circ}\text{C}; 20\% \leq RH \leq 80\%; \text{normal} \leq VA \leq 20 \text{ m/s}$$



These parameters $TA(x, x)$, $RH(x, x)$, $VA(x, x)$ (Fig.1) are also related with spatially distributed variables, which defines the plant (air-conditioner) as dynamic system with distributed parameters [1 - 5]. Presented paper is intended to describe and model the temperature in the building conditioning system as controlled plant.

2. PLANT MODEL

The controlled plant is presented with the corresponding:

- Structural model on Fig.2, which covers not only the values listed above, but also some disturbances causing reparameterization and restructuring;
- Generalized technological scheme of HVAC-system for conditioning by TA , RH , VA (Fig.3), where the respective own-

trailing (input) values are: for the temperature TA – the flow rate Q_m of heat-transferring material (refrigerant) in the heater (chiller) and the fresh/exhaust air ratio γ , but as key and major is assumed the value Q_m ; for the relative humidity RH – volumetric outflow Q_m of the water aerosol in the condenser area and the ratio γ ; for the exchange VA – turnover $\dot{Q}_m$ of the fans, controlling the velocity of airflow circulating in the rooms.



Fig.2

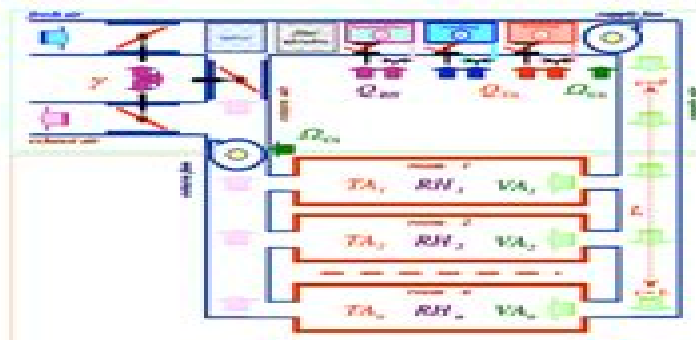


Fig.3

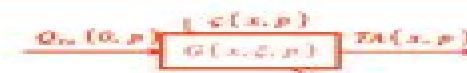


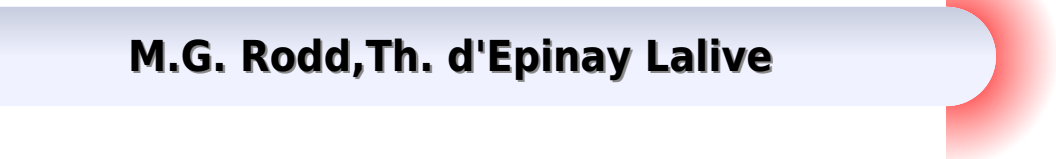
Fig.4

As a basic output (controlled) value is considered the temperature TA into the building rooms (as it is assumed that the values RH and VA are effectively stabilized), and as an input (controlling) value – the flow rate Q_m of heat-transferring material (refrigerant) through the heater (chiller). This is included in the model on Fig.4, which incorporates all other values in one general disturbance c .

Known from the thermodynamics is the *Newton-Richman* law for forced convective heat transfer in non-stationary working

Distributed Parameter System Solution Manual

M.G. Rodd, Th. d'Epinay Lalive



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