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**MATHEMATICAL MODEL OF HEAT AND HUMIDITY
CONDUCTING WALLS IN VARIABLE THERMAL PROPERTIES**

Article is dedicated to the development of the numerical method of calculation of the nonstationary thermal and humidity conditions of flat walls under the conditions of the variable thermophysical characteristics of materials. The results of studies can be used for the analysis of the thermal and humidity conditions of the enclosing constructions and the building materials.

Keywords: *thermal conductivity, mathematical model, the enclosing constructions.*