DYNAMIC REGIME MODELLING OF THERMAL SYSTEMS. THE CASE OF A REFRIGERATING SYSTEM

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Abstract: *The purpose of the dynamic analysis is the study of the behavior of the phase-change heat-exchangers, such as condenser and evaporator, the compressor and throttle device, as components of the whole refrigeration system. The matter of modification of the operating conditions has been treated very often in the last few years because the refrigeration systems on the market are stressed by changes in temperature regime, pressure mass flow, heat transfer conditions and, especially, by changes of the thermal load. These regards have imposed the approach to the refrigeration systems' issue from a dynamic point of view of the functioning regime.*

Key words: *thermal systems, modelling, optimization, dynamic regime, refrigeration.*

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