

**PECULIARITIES OF SETTING UP A PROBLEM OF CALCULATING PROCESSES FOR
A GENERAL-PURPOSE GAS CYLINDER AS A NON-CLASSICAL
TWO-PHASE SYSTEM AND ESTIMATION OF ITS TEMPERATURE CONDITION**

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The paper describes the processes in a general-purpose gas cylinder different from cryogenic capacities with low pressure levels stored without draining in that heat isolation is inside the vessel. Existing approaches to solving the problem of process calculation for similar two-phase systems are analysed. The results of calculating cylinder temperature condition carried out using a simplified method are presented.