

## **THE OPTIMAL DESIGN OF HEAT SOURCES DISTRIBUTION IN CALENDER**

Summary – In the paper the analysis of a heat transfer for a calender is considered. With respect to working condition of this type of systems the highest smoothness of temperature field on the working surface is demanded. The main problem is the nonuniform temperature distribution on the working surface along calendar axis. The uniformness of the field temperature can be ensured by manipulating of heat sources distribution. The optimal design of heat distribution, leading to uniform temperature of given value, is carried out using evolutionary algorithm when the analysis of the state of the calendar is done with finite element method.