

**EFFECT OF THE INLET FLOW GAS TEMPERATURE FIELD AND
TURBULENCE ON HEAT TRANSFER IN THE TURBINE NOZZLE
CASCADE AND COMBUSTION CHAMBER OPTIMIZATION**

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JSC Klimov

Optimal relative values of the gas collector length and the combustion chamber flame tube air holes total area were substantiated on the basis of analysis of mutual effect of the inlet flow gas temperature field irregularity and turbulence on heat transfer in the turbine nozzle cascade.