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Tropina A.A. The nitrogen oxide formation in diffusion combustion of methane-air mixture // Internal combustion engines. – 2005. – 1. – P. 30-35.

The problem of diffusion combustion of methane-air mixture is considered. The mechanisms of nitric oxide formation taking into account the non-equilibrium of oxygen-atom formation reaction and the turbulent pulsations of temperature and mixture species have been evaluated. It has been approved that the main factors that influence on NO emission are the non-homogeneity of mixture, the pulsation flow characteristics and the deviation of oxygen-atom concentration from equilibrium.

Il. 6. Bibliogr. 10 names.