

THE SYNTHESIS NONEQUILIBRIUM PROCESSES INVESTIGATION OF
NITROGEN OXIDES IN PLASMACHEMISTRY MICROWAVE REACTOR IN
MAGNETIC FIELD.

R.I.Asisov, V.K.Zhivotov, M.F.Krotov, V.D.Rusanov,
Ju.V.Tarasov.

I.V.Kurchatov Institute of Atomic Energy, Moscow, USSR

Thermodynamic nonequilibrium plasmachemical microwave discharge is used to carry out synthesis reaction of matter in Gas Phase. Electron heating in the plasma is achieved by using electron-cyclotron resonance. Results on the mixture of nitrogen and oxygen are obtained. It is shown that electron energy may be utilised by chemical reactions very effectively when electron-cyclotron resonance conditions are achieved.