

# Mathematical Modelling of the Atmosphere Pollution with Non-classic Boundary Conditions and Nested Greed Method

T. Davitashvili, D. Gordeziani

A regional mathematical model of transporting and dispersion of the atmosphere admixture under non-local boundary conditions and new nested greed method is discussed. In the mathematical model the influence of orography is taken into account. The mathematical model is based on the solution of primitive equations. As numerical calculations shows in case of classical Boundary conditions, in the vicinity of boundary unreal increase of concentration values took place, which was not observed in case of non-local boundary conditions. With the aid of mathematical model of the air pollution Georgian transport corridor territory pollution is discussed too. The results of numerical experiments are given.