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Pollution of the air basin in the cities by motor transport and the industrial enterprises, quality assessment of atmospheric air with the use of calculation methods and instrumental control

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Abstract

Within this work, field observations of structure and intensity of motor transport streams were conducted, the information about the operating sources of atmosphere pollution from the enterprises in the city of Naberezhnye Chelny, their qualitative and quantitative structure, physical parameters were collected, processed and systematized. On the basis of the obtained data a summary calculation of emissions of the industrial enterprises and motor transport was carried out, the list of the priority polluting substances was defined, the complex index of pollution of the atmosphere was calculated, highways with the greatest transport loading were defined. On the basis of instrumental control the measurements of quality of atmospheric air near highways were carried out, actions for optimization of transport streams and decrease in negative impact were offered.

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Keywords

Atmospheric air, Cards of dispersion, Dispersion calculation, Mobile sources, Permissible exposure limit, Stationary sources, The polluting substances