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**A.V. GLUSHKOV, A.A. SVINARENKO,
O.Yu. KHETSELIUS**

**Modeling an ecological state of
environment with accounting
radioactive contamination,
radionuclides transfer**



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A.V. GLUSHKOV, A.A. SVINARENKO,
O.YU. KHETSELIUS

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Monograph



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In this monograph the complex of new mathematical models, methods, approaches, technologies of analysis and forecasting of ventilation, the environmental state of the atmosphere of industrial cities, the influence of anthropogenic factors, radioactive contamination, radiation and environmental pollution on the ecological state of natural environments, new methods of calculation, estimation, forecasting of spatial-time dynamics of transfer, dispersion, distribution of harmful substances, including, radionuclides in the geosphere, atmosphere. The publication was prepared under the project "Complex of new stochastic-hydrodynamic and atomic-diagnostic models of monitoring of anthropogenic pollution of the atmosphere of industrial cities and "Green City" technology".

В даній монографії наведено комплекс нових математичних моделей, методів, підходів, технологій аналізу та прогнозування вентиляції, екологічного стану атмосфери промислових міст, впливу антропогенних чинників, радіоактивного забруднення, радіаційно-екологічних забруднень на екологічний стан природних середовищ, нові методи розрахунку, оцінки, прогнозування просторово-часової динаміки переносу, дисперсії, розподілу шкідливих речовин, у тому числі, радіонуклідів в геосфері, атмосфері. Видання підготовлено в рамках проекту «Комплекс нових стохастично-гідродинамічних та атомно-діагностичних моделей моніторингу антропогенного забруднення атмосфери промислових міст та "Green City" технологія».

Reviewers:

Dr. Sc. (Phys.-Math.), professor O.V. Turin
Dr. Sc. (Phys.-Math.), professor V.G. Shevchuk

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В даній монографії приведен комплекс нових математических моделей, методов, подходов, технологий анализа и прогнозирования вентиляции, экологического состояния атмосферы промышленных городов, влияния антропогенных факторов, радиоактивного загрязнения, радиационно-экологических загрязнений на экологическое состояние природных сред, новые методы расчета, оценки, прогнозирования пространственно-временных динамики переноса, дисперсии, распределения вредных веществ, в том числе, радионуклидов в геосфере, атмосфере. Издание подготовлено в рамках проекта «Комплекс новых стохастической-гидродинамических и атомно-диагностических моделей мониторинга антропогенного загрязнения атмосферы промышленных городов и "Green City" технология».

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Abbreviations (used in the text):

- CRS – contaminating radioactive substances
- HI – harmful impurities
- MMS – the monitoring and measurement stations
- NPP – nuclear power plant
- REC – radiation-ecological consequences
- PBL – planetary-boundary layer
- USW – ultra short wave

Наукове видання

Глушков Олександр Васильович, д.ф.-м.н., проф.,

Свинаренко Андрій Андрійович, д.ф.-м.н., проф.,

Хецеліус Ольга Юріївна, д.ф.-м.н., проф.

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