

### **3-D modeling of physical processes in case of accidents at mines**

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#### **Abstracts**

Large accidents at mines are complex and multifactor. The conditions for mine rescue work can vary in time at a high rate, which can not always be calculated by existing methods. Present computer technologies in three-dimensional modeling allow carrying out complex calculations of physical processes in the case of accidents occurring in mine workings and in goaf. Analyze the accident can be both in the stationary formulation of the problem, and in the non-stationary. The results of calculations can be presented in any form (videos, isolines, isosurfaces, distribution by section, graphs, tables, etc.). This allows you to analyze the course of mine rescue work, choose the best measures for localizing and eliminating the accident.

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