ABOUT THE METHODOLOGICAL ASPECT OF GEODETIC MONITORING OF THE STRESS-STRAIN STATE OF THE EARTH'S CRUST UNDER THE DEVELOPMENT OF THE KUZBASS SUBSURFACE

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Geodetic monitoring systems in various fields of the national economy are considered, their relevance is established. It is noted that in the development of the Kuzbass subsurface, geotechnical (surveying) monitoring is dominant. To conduct comprehensive monitoring of the state of the subsurface, it was proposed to develop geodetic monitoring of deformations of the earth's crust. The main contradiction of the development of this method has been established: on the one hand, a significant increase in accuracy, efficiency and automation of measurements, on the other hand, the lack of development of the theory and the lack of adequate models that take into account the structure and hierarchy of the earth's crust. Traditional technologies use flat models of the earth's crust that do not provide such accounting. Therefore, the aim of research is to develop a methodology for creating geodetic monitoring of the stress-strain state of the earth's crust during the development of the Kuzbass subsurface. To achieve this goal, a problem has been formulated, including improving the theory of this monitoring based on the use of fundamental hypotheses of geodynamics. The practical use of this theory ensures the creation of three main components of this geodetic monitoring to obtain information on the development of geodynamic and technogenic processes in the development of the subsurface of Kuzbass.

Key words: block of the Earth's crust, stress state, observation station, geodetic monitoring, geodynamic test site, hypothesis, methodology, geodynamic process.

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