

DESIGNING OF GEODESIC CONTROL FOR COORDINATE SUPPORT OF CADASTRAL WORKS IN TERRITORIAL ENTITY

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Performing cadastral works in respect of real estate objects requires first of all the need to determine the location in the territorial unit and reflect the information received in the relevant section of the boundary or technical plan. To solve this scientific and technical problem, at present, various methods of creating geodesic structures and various measuring technological equipment are used. However, the lack of scientifically based requirements for the accuracy of creating a geodetic control and the absence of a methodology for building it on the ground causes numerous problems in the registration of newly formed land plots and their capital construction objects in state cadastral registration

Objective: to offer a technological scheme for transferring the coordinate system for the implementation of urban planning and cadastral activities in the cadastral block of a territorial entity.

Methods: theory of mathematical processing of geodetic measurements with elements of mathematical statistics and the method of least squares.

Results: proposed is the technological scheme, the implementation of which allows to create a second step of the geodetic control in the cadastral block and evaluate its accuracy.

Key words: geodetic control, cadastral block, land parcel, territorial entity, geospatial metrics, determined points, root mean square error, statistical criteria, mathematical algorithm.

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Received 17.01.2019

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