

GEODETIC MONITORING DURING THE OPERATION THE FOOTBALL STADIUMS OF THE WORLD CHAMPIONSHIP 2018

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The technologies of geodetic works in monitoring of various structures can still be associated with a number of difficulties caused by the influence of different factors despite the studies of many authors on that theme. The article describes the high accuracy geodetic monitoring of the football stadiums "Rostov Arena" and "Kaliningrad" that took place in a short time frame and in adverse weather conditions. The article gives two geodetic monitoring methods such as creating serving network by side-points method and electronic block tacheometry. The technology and the adjustment of measurements made during monitoring are described in the article. The results show that the use of the side-points method and electronic block tacheometry ensures high accuracy measurements even in adverse conditions for observations. Practical conclusions and recommendations are set out. The article may be useful for specialists in the field of monitoring and geodetic control of deformations of structures.

Key words: geodetic monitoring, deformation control, horizontal displacements, polygonometry, electronic block tacheometry, accuracy increase.

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