

STUDY OF SEDIMENTATION OF HYDROTECHNICAL STRUCTURES BUILT IN SUBSIDIARY SOILS

M. KH. RAJAPBAEV

Senior Teacher at Tashkent Institute of Irrigation Agriculture Mechanization Engineers, National Research University

ABSTRACT

This article presents the classification of geodetic equipment and methods used in monitoring the vertical subsidence and horizontal displacement of the Jizzakh reservoir dam. In the course of the research, scientific research on the investigation of subsidence and displacement of the dam using a 3D laser scanner, a drone, GNSS, an electronic total station, and a level and an assessment of their accuracy were highlighted. At the end of the article, a geodetic device is recommended, which is the most suitable for monitoring the vertical subsidence and horizontal displacement of the reservoir dam.

Keywords: 3D, GNSS, Reservoir, Dam, Drone, Electronic Total Station, Laser Scanner, Level, Compass, Topographic Map, GPS and GLONASS

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