



Monitoring of displacement of engineering objects using GPS-RTK technique

R.Szpunar, J.Walo

Warsaw University of Technology, Faculty of Geodesy and Cartography
(szpunar@gik.pw.edu.pl, +4822 6210052)

Determination of the geometrical characteristics of engineering objects is necessary to their safe exploitation. Modern terrestrial and satellite measuring techniques make possible the permanent monitoring of the objects. The techniques make also possible measuring reference object and moving object at the same time. The paper presents a concept how to take advantage of kinematic satellite GPS-RTK measurements and FIR filters to determine displacements of few millimeters.