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AN IMPACT OF RATE TABLE ERROR ONTO PRECISION OF THE
GYROSCOPES AND
ACCELEROMETERS CALIBRATION

The results of researching of scalar method of calibration of block gyroscopes and accelerometers, which allows to determine biases, scale factors errors and angles of mounting misalignment sensors, not cause any tough requirements to the angular mounting of test equipment are described in this issue. The researching was made in the department of instruments and systems of orientation and navigation of NTUU «KPI». However, as described here, the angles turn errors of test equipment are caused errors of scalar calibration. For the decision of problem of singularity, arising during matrix calculations, it is suggested to pass at calculations from Euler-Krylov angles to quaternions. A numerical calculations are confirmed the rightness of the offered method.

Keywords: *calibration, gyroscopes, accelerometers.*