

About Scalar Calibration Of Gyro And Accelerometers Unit

Avrutov V. V.

National Technical University of Ukraine “Kyiv Polytechnic Institute”, Kyiv, Ukraine

The main features of scalar calibration method of gyroscopes and accelerometers unit are viewed. Using this method it is possible to determine biases, scale factor errors and mounting misalignments of the sensors without special requirements to alignment of test equipment and sensors alignment on the test equipment. But it requires sufficiently high accuracy of measurement of the output signals of sensors - the algorithm works fine when the number of digits is at least eight decimal places in normalized output signals of accelerometers.

Keywords: *calibration, gyroscope, accelerometer.*