

Research Methodology Cancellation Of Magnetic Deviation Of Navigation Systems

Meleshko V. V., Kucher V. V.

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

Considered various methods of writing off the magnetic deviation of navigation systems and sound use of more precise formulas for its determination. It is shown, that a refined formula may increase the accuracy of the definition of a magnetic deviation by up to 30 percent. To reduce labor costs in cancellation of deviations are formulas for determining the deviation of 6 and 5 dimensions of deviation. Shows examples of calculating the deviations of different formulas and different amounts of measurement deviation. Results allow us to optimize the cancellation of the magnetic deviation method for marine vessels, aircraft and ground-based moving objects.

Keywords: *cancellation of magnetic deviation, magnetometer, rate, deviation.*