

Abstract

Actually the problem of determining the additional parameters of motion gyrotheodolite sensitive element is shown. We consider a system of stabilization of the giromotor angular velocity that can be used to solve this problem. The synthesis of the observer to identify estimates of the motion parameters in not gyrostabilized plane is presented. We consider the error of estimation of the observing device. The simulation of the observer is shown.

Keywords: gyrotheodolite, giromotor, vibration error.