

Ван Сюжу / Wang Xiuru

13.034.02

South Ural State University

«Design and research on an antenna positioning system»

Abstract

Positioning is understood as the determination of the location of an object using satellite systems. However, we are often not satisfied with the approximate coordinates of the object, especially when it comes to the antenna positioning system. After all, from the approximately assumed coordinates, we get a poor quality of positioning, a satellite dish. As a result, poor data transfer results.

Nowadays, technology has advanced far enough to ensure good positioning, using various resources and technologies. And our task is to continue to study similar systems for more accurate and error-free results. In any system, in any process, there are no one-size-fits-all solutions. You will never be able to take one setting and apply it only for all cases. Each time you will have to reconfigure the system for each case individually. However, if self-adjusting systems are actively researched and introduced as often as possible, then this process can be made much easier, faster and more productive.

Using the example of this work, we saw how the introduction of a self-adjusting system made it possible to achieve monotony of processes

in the process of antenna rotation. Thus, to achieve greater accuracy of antenna positioning, which is one of the most important parameters in positioning.