

Annotation

In the graduate work, the theme «Study of the coverage area of a digital transmitter depending on the number of TV broadcast programs» is developed.

The main advantages of digital TV compared to standard analog TV systems, first of all, in the best signal reproduction quality. But the main thing is that the throughput of the transport medium (satellite lines, cable network, terrestrial radio line, etc.) is significantly increased, and significantly more TV channels can be broadcast in the same allocated bandwidth, which is due to the use of modern types of modulation.

In the thesis, several methods were calculated to determine the coverage area of a digital transmitter, an economic calculation of an enterprise using the DVB-T2 standard was carried out, and optimal working conditions were organized.

Calculation methods and results can be used on the example of a radio transmitting television station Kok-Tobe, Almaty.