



UDC 621.397.74

Numerical Modelling and the Analysis of Impact of Distortions on OFDM/QAM-signal

A. A. Lvov, V. V. Kiselev

Saratov State Technical University, Russia, 410054, Saratov, Politekhnikeskaya st., 77, alvova@mail.ru, kiva@live.ru

In this work mathematical models of communication channels with various interferences, their influence on constellation diagrams' points in systems with OFDM/QAM signals are considered, recommendations about channel monitoring are made.

Key words: communication channel quality, monitoring, mathematic models, interferences, constellation diagram.

Библиографический список

1. Kiselev V. V., Svetlov M. S. Mathematical model of a data link of system of digital TV and radio broadcasting. *Collection of works of the international scientific conference ATM TKI-50*, Saratov, 2009, pp. 250–252 (in Russian).
2. Kiselev V. V., Lvov A. A., Svetlov M. S. Features of modeling of single-frequency networks of digital TV and radio broadcasting of the DVB-T standard. *Vestnik Saratov. Gos. Tekhn. Univ.*, 2010, no. 4(51), pp. 145–150 (in Russian).
3. Kiselev V. V., Lvov A. A., Svetlov M. S., Mukhambetzhano A. S. Monitoring of channels in systems with OFDM/QAM signals. *Vestnik Saratov. Gos. Tekhn. Univ.*, 2010, № 4(50), pp. 13–17 (in Russian).