

"Microwave & Telecommunication Technology"
22st International Crimean Conference
10-14 Sept. 2012, Sevastopol, Ukraine

Application of external synchronization for increasing noise stability in homodyne reception of optical signals

**D. N. Tsurcanu, T. P. Tsurcanu, A. P. Nistiriuk, S. M. Andronic,
A. G. Chihai, P. P. Nistiriuk, L. V. Baxan, P. V. Nistiriuk,
A. S. Alexei**

<https://ieeexplore.ieee.org/abstract/document/6335988>

Abstract

In the infrared range of wavelengths $\lambda = 1 \dots 6$ microns the use of an external injection synchronization based on the cylindrical lens (CL) with tunable parameters, to improve noise stability in homodyne reception of optical signals, was investigated.