

ICNBME 2021: 5th International Conference on Nanotechnologies and Biomedical Engineering
pp 3–10

Influence of Double Feedback on Stationary States of Quantum Dots Lasers

E. Grigoriev

Department of Physics, Technical University of Moldova, Chisinau, Republic of Moldova

S. Rusu

Department of Physics, Technical University of Moldova, Chisinau, Republic of Moldova

V. Tronciu

Department of Physics, Technical University of Moldova, Chisinau, Republic of Moldova

DOI

https://doi.org/10.1007/978-3-030-92328-0_1

Abstract

We report in this paper the results of theoretical investigations of the influence of double feedback on the stationary states of quantum dots lasers. The Bloch equations model was used to simulate and analyze these states. We have identified the distribution of external cavity modes varying the feedback strength.

Acknowledgment

This work was supported by the National Agency for Research and Development of Moldova within the project 20.80009.5007.08 “Study of optoelectronic structures and thermoelectric devices with high efficiency”.