



Dynamic Characteristics of A Photoconducting-Electroluminescent Optoelectronic System with Optical Feedback

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Thin film systems with photoconducting (PC) and electroluminescent (EL) elements can be divided into three groups. The first group comprises systems without feedback, the second, systems in which an optical feedback occurs between the elements PC and EL, and the third, systems with unidirectional optical coupling occurring between the elements PC and EL. Each of these groups may found numerous applications -3, but the most interesting are the PC-EL systems with optical feedback, as upon satisfying some conditions, these systems become bistable. A system composed of one PC element and two connected in parallel EL elements (Fig. 1), supplied with sinusoidal voltage, can be such a simple bistable system.

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