

Laos Optical Switch DML



Overview

A heterojunction phototransistor (HPT) is integrated in series with a light-emitting diode to form an optoelectronic device called Light Amplifying Optical Switch. This device has been shown to switch from low c.



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A new optoelectronic integrated device is proposed for light-amplifying optical switch (LAOS). The device is composed of an optical field-effect transistor (OPFET) in series with a light source which may be ...



The use of the LAOS to implement optical logic circuits with multiple input stages that invert and restore the input signal is discussed. Applications to image and signal processing are ...



Abstract: A light amplifying optical switch (LAOS), a vertically integrated heterojunction phototransistor (HPT) and light emitting diode (LED) that has latching thyristor type current-voltage characteristics, is ...



A circuit model for optical and electrical feedback has been developed to investigate the cause of negative differential resistance (NDR) switching in a series connected heterojunction...



This switching has been attributed to the presence of optical and electrical feedback mechanisms as well as to gain nonlinearity. A circuit model for such device that took into account ...



A new optoelectronic integrated device is proposed for a light-amplifying optical switch (LAOS). The device is composed of an optical field-effect transistor (OPFET) in series with a light...



The light amplifying optical switch (LAOS) consists of a hetero junction phototransistor (HIT) vertically integrated with a light-emitting diode (LED). The device exhibits s-shaped, negative differential ...



A new optoelectronic integrated device composed of an Optical Field Effect Transistor (OPFET) in series with a double heterojunction light emitting diode (LED) or a laser diode (LD) which can be used as a ...



This paper presents the design, analysis, and experimental demonstration of a monolithically integrated all optical NOB gate based on the light amplifying optical switch (LAOS).

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For more information, pricing, or custom network solutions, please contact us:

Website: <https://hashherbcafe.co.za>

Email: hello@hashherbcafe.co.za

Phone: +27 63 814 7295

Address: 15 Galaxy Road, Linbro Business Park, Johannesburg, 2065, South Africa

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