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4th International Conference. Numerical Simulation of Optoelectronic Devices. University of California at Santa Barbara, August 24-26, 2004. Technical Co-Sponsors:

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| Abstract | PDF (211 KB) | HTML This study numerically simulates the dynamic performance of linear optical amplifiers (LOAs), including the crosstalk and relaxation oscillations. A small signal analysis is proposed using average carrier density approximation to quantitatively investigate the crosstalk of LOAs.

## **IEEE Xplore - Conference Table of Contents**

NUSOD-04 6 SOA steady-state numerical model The model is based on a set of coupled differential equations that describe the interaction between the internal variables of the amplifier:

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NUSOD 2011 TuC2 40-Gbh Optical Buffer Design and Simulation Hyundai Park, Emily E Bwmeister, Staffan Bjorlin, and John E. Bowers Electrical and Computer Engineering Department University of California at Santa Barbara

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2013 MA Novel Devices MA1 Highly efficient sources of single indistinguishable photons; N. Gregersen;  
Technical University of Denmark (invited) 1 MA2 Optoelectronic resonant tunneling diodes for high purity  
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and

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Article 56 Proceedings (Closed Session) ICC-02/04-01/15 15.09.2015 Page 4 1 under Rule 121(3 ) an d (6 )  
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Berlin, Germany (19-22 Sept., 2005)] NUSOD '05. Proceedings of the 5th International Conference on  
Numerical Simulation of Optoelectronic Devices, 2005.

### **[IEEE NUSOD '05. 5th International Conference on Numerical**

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talk) Ultraviolet FSO to laser-based VLC " the role of group-III-nitride devices", Asia Communications and  
Photonics Conference (ACP 2018).

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of Optoelectronic Devices (NUSOD 2016): Proceedings of a meeting held 11-15 July 2016, Sydney,  
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Bistable Spiking Circuit with Graphene Excitable Laser for Cascadable Photonic Logic Bhavin J. Shastri<sup>1</sup>, Alexander N. Tait<sup>1</sup>, Mitchell A. Nahmias<sup>1</sup>, Ben Wu<sup>1</sup>, Bruno Romeira<sup>2</sup> and Paul R. Prucnal<sup>1</sup> <sup>1</sup>Princeton University, Princeton NJ, 08544, USA.<sup>2</sup>Universidade do Algarve, Campus de Gambelas, 8005-139 Faro, Portugal [shastri@ieee.org](mailto:shastri@ieee.org) Abstract: We demonstrate a photonic bistable spiking circuit with a ...

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