

Introduction to the OQE special issue on Numerical Simulation of Optoelectronic Devices NUSOD'10

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This special issue of Optical and Quantum Electronics contains a selection of papers that were presented at the 10th International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD) in Atlanta, Georgia, USA, September 6–9 2010. NUSOD'10 was chaired by Benjamin Klein and Douglas Yoder from Georgia Institute of Technology, USA, and Joachim Piprek, NUSOD Institute, USA.

The presented papers report on the recent advances in the modelling of semiconductor lasers, semiconductor amplifiers, organic semiconductor devices, light emitting diodes, photo-detectors, integrated optical sensors, integrated optics, and solar cells. The particular topics relate to refinement and optimisation of the devices that are manufactured using well established technological processes and also to the development of novel technologies aimed especially at the opening of new wavelength windows for various applications. The wide scope of the thematic areas that are covered by the papers reflects the diversity of the problems that were discussed at the Conference.

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