

OptiSPICE Publication References

Below is a listing of scientific papers, technical journals, periodicals, and conference publications which reference the use of OptiSPICE.

- [1] M. Afshar and H. Hoseini, "A NEW OPTICAL IMPLEMENTATION OF REVERSIBLE FULL ADDER USING OPTOELECTRONICS DEVICES," *Journal of Advances in Computer Research*, vol. 3, no. 1, pp. 89–97, 2012.
- [2] M. Fiers, T. Van Vaerenbergh, P. Dumon, K. Caluwaerts, B. Schrauwen, J. Dambre, and P. Bienstman, "CAPHE: a circuit-level time-domain and frequency-domain modeling tool for nonlinear optical components," in *16th Annual symposium of the IEEE Photonics Benelux Chapter*, 2011, pp. 277–280.
- [3] T. Smy, P. Gunupudi, S. McGarry, and W. N. Ye, "Circuit-level transient simulation of configurable ring resonators using physical models," *JOSA B*, vol. 28, no. 6, pp. 1534–1543, 2011.
- [4] D. H. Richards, "Commercial optical communication software simulation tools," in *WDM Systems and Networks*, Springer, 2012, pp. 189–232.
- [5] D. Trifkovic, "Comparison of APD Macromodels for Accuracy, Speed and Implementation Issues," Carleton University, 2012.
- [6] M. S. Wartak, *Computational Photonics: An Introduction with MATLAB*. Cambridge University Press, 2013.
- [7] L. Chrostowski, J. Flueckiger, C. Lin, M. Hochberg, J. Pond, J. Klein, J. Ferguson, and C. Cone, "Design methodologies for silicon photonic integrated circuits," in *SPIE OPTO*, 2014, p. 89890G–89890G.
- [8] G. K. Singh, "Method to control the output power of Laser in the variation of Ambient Temperature," *International Journal of Engineering Inventions*, vol. 3, no. 4, pp. 56–60, 2013.
- [9] P. Gunupudi, T. Smy, J. Klein, and J. Jakubczyk, "Modeling multi-channel optical links using OptiSPICE for WDM systems," in *SPIE Defense, Security, and Sensing*, 2010, p. 77050A–77050A.
- [10] E. Kononov, "Modeling photonic links in Verilog-A," Massachusetts Institute of Technology, 2013.

- [11] P. Gunupudi, T. Smy, J. Klein, and J. Jakubczyk, "Modeling scattering and diffraction elements in a spice like optoelectronic framework," in *Photonics North 2009*, 2009, p. 73862R–73862R.
- [12] M. S. Ab-Rahman, A. A. Khairuddin, S. A. C. Aziz, N. H. A. Razak, and K. Jumari, "Optical Moderator Improves Flexibility Feature of Fiber-to-the Home Network," *Journal of Applied Sciences*, vol. 11, no. 19, pp. 3372–3380, 2011.
- [13] T. Smy, M. Freitas, and V. Ambalavanar, "Self-consistent opto-thermal-electronic simulation of micro-rings for photonic macrochip integration," in *Optical Interconnects Conference, 2012 IEEE*, 2012, pp. 68–69.
- [14] P. Gunupudi, T. Smy, J. Klein, and Z. J. Jakubczyk, "Self-consistent simulation of opto-electronic circuits using a modified nodal analysis formulation," *Advanced Packaging, IEEE Transactions on*, vol. 33, no. 4, pp. 979–993, 2010.
- [15] A. A. Amini and P. Gunupudi, "Self-Consistent Steady-State Simulation of Microwave Photonic Systems Using Harmonic Balance," 2014.
- [16] I. A. SOLUTIONS, "SIZE REDUCED INTEGRATED 40G DPSK RECEIVER," *IEEE Communications Magazine*, vol. 47, no. 11, p. 40, 2009.
- [17] A. A. Amini, "Steady-State Simulation of Microwave Photonic Systems," Carleton University, 2013.
- [18] M. Bissessarsingh, "The Application of Model Reduction Techniques to MEMS Structures," Carleton University, 2008.
- [19] M. S. Ab-Rahman and N. I. Shuhaimi, "The Effect of Temperature on the Performance of Uncooled Semiconductor Laser Diode in Optical Network," *Journal of Computer Science*, vol. 8, no. 1, p. 84, 2012.
- [20] D. Burke and T. Smy, "Thermal Models for Optical Circuit Simulation Using a Finite Cloud Method and Model Reduction Techniques," *Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on*, vol. 32, no. 8, pp. 1177–1186, 2013.
- [21] M. Fiers, T. Van Vaerenbergh, K. Caluwaerts, D. Vande Ginste, B. Schrauwen, J. Dambre, and P. Bienstman, "Time-domain and frequency-domain modeling of nonlinear optical components at the circuit-level using a node-based approach," *JOSA B*, vol. 29, no. 5, pp. 896–900, 2012.

