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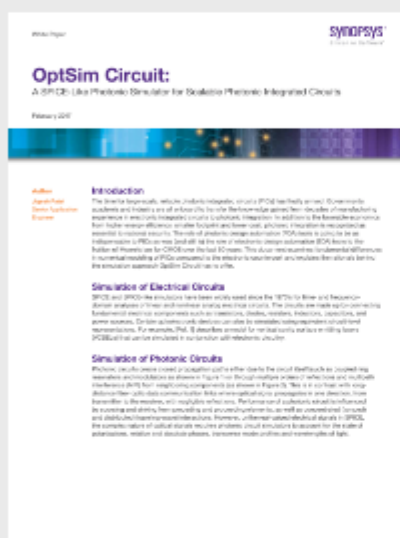


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## OptSim Circuit: A SPICE-Like Photonic Simulator for Scalable Photonic

The time for large-scale photonic integrated circuits (PICs) has arrived. Governments, academia and industry are all onboard to transfer knowledge gained from decades of manufacturing experience in electronic integrated circuits to photonic integration. Photonic integration offers higher energy efficiency, smaller footprints and lower costs. This document examines fundamental differences in numerical modeling of PICs compared to traditional approaches for modeling fiber-optic systems, draws parallels with commonly used electrical circuit simulation methods and explains the PIC simulation approach of Synopsys RSoft™ OptSim™ Circuit software.

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