

WHITE PAPERS & APPLICATION NOTES

A Comprehensive Guide to Photonic Design Automation: From Devices to Systems

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A Comprehensive Guide to Photonic **Design Automation: From Devices to** Systems

This whitepaper presents a versatile and comprehensive photonic design workflow that integrates design and simulation techniques ranging from optical waveguides and fibers to complete optical systems. We show different aspects of the design simulated on three levels of abstraction: device, circuit, and system. Corresponding simulation techniques and examples will be shown for each level, including their interactions. Further, we employ the presented simulation framework for studying the impact of fabrication tolerances of photonic devices on a 16-QAM optical transmission system.

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