Thursday, August 22, 2024

PHOTONICS spectra®

WEBINARS

Join us for a FREE Webinar

Manufacturing-Aware Design of Photonic Integrated Circuits

Thursday, September 5, 2024 1:00 PM - 2:00 PM EDT

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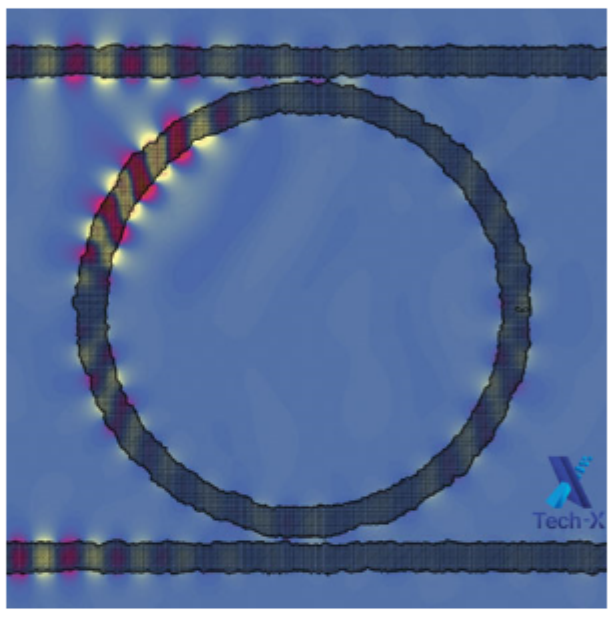
Presented by

Tech-X
SIMULATIONS EMPOWERING YOUR INNOVATIONS

PICs are a rapidly growing technology due to the unquenchable demand for high bandwidth communications in the data center. As the industry grows, new applications are being established to leverage the capabilities and advantages that PICs provide, and a robust design and manufacturing industry has arisen to meet these needs. Part of the need for industry maturation includes the development of a design process that accounts for manufacturing variations and imperfections prior to tape-out. Unfortunately, accounting for manufacturing realism adds to the computational cost of an already computationally expensive problem. Photonic devices containing large components, such as micro-ring resonators and grating couplers, can be at the limits of finite-difference time-domain (FDTD) simulations and limit the ability to perform parameter scans over manufacturing variations. The development of accelerated computing using distributed computing across multiple graphics processing units, as well as inexpensive and easily available high-performance computer platforms at Amazon Web Services, enables manufacturing-aware explorations during design. In this webinar, John Cary from Tech-X demonstrates these capabilities with XSim, a new, highly accurate FDTD simulation tool for PIC designers. Accounting for manufacturing variations and imperfections in the design with more accuracy improves tape-out confidence before submission of a design for fabrication and testing. Presented by Tech-X.



Upcoming Webinars

- Industry Innovations in Fiber-Based Frequency Combs: Ultrabroadband Comb with Sub-3-kHz Free-Running Linewidths, 8/27/2024 1:00:00 PM EDT
- Reflective Optics for Multispectral EO Systems, 8/28/2024 9:00:00 AM EDT
- How to Improve Laser Applications Using Freeform Optics, 9/4/2024 10:00:00 AM EDT

Archived Webinars

- Measuring Starlight with an Ultrafast Laser: Astrocomb Development for the Extremely Large Telescope
- Beam Steering with Galvos: Common Configurations and Their Uses
- From At-line to In-Line Quality Control and Foreign Body Detection with Hyperspectral Imaging

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