VPIphotonics
DESIGN AUTOMATION

Press Information

Berlin, 5th of February 2015

VPIphotonics and Phoenix Software ease design of Photonic Integrated Circuits by bridging circuit-level optimization and mask layout generation

VPIcomponentMaker Photonic Circuits introduces export to *OptoDesigner*

To enable photonic integrated circuit designers to shorten the total design time, gaining quality and efficiency, VPIphotonics introduces the ability to export a circuit-level design from *VPIcomponentMaker Photonic Circuits* directly to *OptoDesigner* by PhoeniX Software. Based on the fabrication technology information, the corresponding mask layout will be automatically generated. The developed interface was created using the PDAFlow standard, thus allowing software tools to interoperate and to use Photonics Design Kits.

VPIcomponentMaker Photonic Circuits is developed with the goal to enable a convenient, accurate and fast EDA-style design flow for elaborating large-scale and heterogeneous photonic integrated circuits (PICs) consisting of hundreds of passive photonic, active optoelectronic, and electronic elements. The scalable and robust circuit-level simulation framework allows seamless integration of time- and frequency-domain simulation domains and can, therefore, be combined within the same modeled circuit. The convenient and powerful graphical user interface provides efficient means for automated parameter sweeps, design optimizations, tolerance and yield analysis using in-built graphical elements, customizable macros and flexible scripting interfaces.

OptoDesigner is the ultimate photonics design suite enabling designers to automatically synthesize photonics designs, driven by fabrication information and required optical specifications. It is the definitive platform for integrated photonics design and fabrication, with Process Flow visualization, Photonics simulations and Chip and Mask layout as the main modules. With the multi-faceted graphical user interface and domain specific scripting environment, designers are in full control over their design.

Interested users of *VPIcomponentMaker Photonic Circuits* or *OptoDesigner* can approach VPIphotonics or PhoeniX Software teams for more information and live demonstrations of this new functionality. For instance, please visit VPIphotonics *booth 4601-23* at Photonics West, San Francisco, February 10-12 2015.

About VPIphotonics

VPIphotonics provides professional simulation software supporting requirements of active/passive integrated photonics and fiber optics applications, optical transmission system and network applications, as well as cost-optimized equipment configuration.

Our team of experts performs consulting services addressing customer-specific design, analysis and optimization requirements, and delivers training courses on adequate modeling techniques and advanced software capabilities.

VPIphotonics' award-winning off-the-shelf and customized solutions are used extensively at hundreds of commercial corporations, research and academic institutions worldwide.

For further information, please visit us at www.VPIphotonics.com.

About PDAFlow Foundation

The PDAFlow Foundation is a non-profit organization for the development, support and licensing of software standards for photonic design automation (PDA).

The PDAFlow Foundation has been formed in 2013 to further develop, support and (sub-)license the PDAFlow API to automate photonics design flows and create sustainable standards.

Goal of the PDAFlow API is to enhance research, process and product development by improving interoperability of (PDA) software tools and provide access to Process Design Kits (PDKs).

About PhoeniX Software

Founded in 2003, PhoeniX Software supports organizations worldwide by offering highly integrated software solutions, training and customer support.

Customers are ranging from Fortune 500 companies to start-ups, universities and research institutes, active in integrated photonics, microfluidics, MEMS, printed electronics and other micro and nano technologies.

Furthermore PhoeniX Software is supporting Multi Project Wafer runs at various foundries with dedicated PDKs for TriPleX, InP and Silicon Photonics.

For further information, please visit us at www.phoenixbv.com.

VPIphotonics.com

Contact

VPIphotonics GmbH

Carnotstraße 6, 10587 Berlin
Germany

Phone: +49 30 398 058 0
E-Mail: info@VPIphotonics.com