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Advanced Optics. "In particular, the program's fast, efficient surface conversion and optimization capabilities resulted in an improved system with fewer aspheric elements."

Support for Q-type Aspheric Surfaces

CODE V 10.3 adds support for new native aspheric surfaces based on mathematical formulations recently published by Dr. G.W. Forbes of QED Technologies. These Q-type aspheric surfaces offer many advantages over traditional polynomial-based aspheres for lens design optimization and tolerancing. For example, the Q-type surfaces can be more easily constrained during optimization to improve manufacturability and reduce cost. In addition, CODE V's fast wavefront differential tolerancing feature supports tolerancing on Q -type polynomial coefficients, which is useful for evaluating system performance and manufacturability.

Enhanced Surface Conversion Capabilities

CODE V's enhanced surface conversion capabilities make it easy to switch back and forth between the Q-type formulations and traditional aspheric surface representations. This allows designers to harness the power of the new formulations while maintaining compatibility with established fabrication processes.

Asphere Expert Tool

CODE V's Asphere Expert tool saves users time and effort by automatically finding optimal asphere locations in the lens system. The tool uses a unique, highly efficient algorithm that takes into account both aspheric slope departure limits and weighted constraints when computing recommended aspheric surface locations. Users have the option to convert selected surfaces to aspheres and optimize the resulting system for best final performance.

Built-in Aspheric Constraints for Design Optimization

New built-in optimization constraints in CODE V allow users to directly control the sag or slope variations of Q-type aspheres to maintain manufacturability of the lens system. For example, these constraints give users the ability to prevent the production of designs where the sag of the aspheric parts is too large for interferometric testing, and to ensure that designs do not require removal of an excessive amount of material during polishing phases. In addition, a new macro function allows aspheric surfaces to be evaluated and optimized for testability using ZYGO's VeriFire Asphere interferometer metrology system.

Availability

The CODE V 10.3 release is available now and can be obtained by emailing info@opticalres.com.

About CODE V

Formerly an Optical Research Associates (ORA®) product, CODE V is an optical engineering and design software solution that supports the optimization, analysis and tolerancing of image-forming optical systems and free-space photonic devices. ORA is now part of Synopsys, Inc. For more information visit <u>http://www.synopsys.com/Tools/OpticalDesign</u>.

About Synopsys

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Synopsys, Inc. (Nasdaq:SNPS) is a world leader in electronic design automation (EDA), supplying the global electronics market with the software, intellectual property (IP) and services used in semiconductor design, verification and manufacturing. Synopsys' comprehensive, integrated portfolio of implementation, verification, IP, manufacturing and field-programmable gate array (FPGA) solutions helps address the key challenges designers and manufacturers face today, such as power and yield management, system-to-silicon

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