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Asphere Design In Code V

CODE V for Aspheric Design An exclusive agreement with QED, signed in October of 2009, has supported efforts to integrate superior aspheric design and analysis capabilities in CODE V software, building upon the core analysis, optimization, and tolerancing strengths of CODE V. The Qcon and Qbfs surface formulations are currently available in CODE V.

Asphere Design in CODE V - Synopsys

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.

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Synopsys' CODE V Enhances Aspheric Lens System Design

CODE V's enhanced surface conversion capabilities are designed to make it easy to switch back and forth between the Q-type formulations and traditional aspheric surface representations. The software's Asphere Expert tool can save users time by automatically finding optimal asphere locations in the lens system.

Synopsys' CODE V Enhances Aspheric Lens System Design ...

Asphere Design In Code V CODE V for Aspheric Design An exclusive agreement with QED, signed in October of 2009, has supported efforts to integrate superior aspheric design and analysis capabilities in CODE V software, building upon the core analysis, optimization, and tolerancing strengths of CODE V.

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Since it was first released commercially in 1975, CODE V has been at the forefront of optical design and analysis software innovations, with continual improvements to keep pace with optical industry demands. It is the preferred tool of numerous companies, government agencies, research labs, and universities worldwide.

CODE V Features - Synopsys Optical Solutions

CODE V's Asphere Expert uses a unique algorithm developed by Synopsys optical engineers to analyze the characteristics of an existing lens system and then recommend optimal asphere locations to ...

CODE V Asphere Expert: Cost-Effective Use of Aspheres

Using CODE V, ORA engineers played a key role in the design and implementation of all the primary null lenses used in the highly successful Hubble Space Telescope First Servicing

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Mission, which dramatically improved the image quality.

CODE V Optical Design Software - foservice.com

CODE V 101, Slide9 Data Entry • Right-click for context sensitive menus • Some operations (e.g. insert, delete) require you to highlight the row first • Some fields (e.g. Surface Type, Refract Mode) you double-click for a drop down list

CODE V 101, Slide10 Data Entry • Allows copy/paste of cell values or a range of cells

CODE V 101 - University of Arizona

•CODE V User Group Meetings, typically held in June -Free, 1-day meetings held in Mountain View, CA (San Jose area), Pasadena, CA (Los Angeles area), and Rochester, NY

CODE V New User Orientation - University of Arizona

An aspheric lens or asphere is a lens whose surface profiles are not portions

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of a sphere or cylinder. In photography, a lens assembly that includes an aspheric element is often called an aspherical lens. The asphere's more complex surface profile can reduce or eliminate spherical aberration and also reduce other optical aberrations such as astigmatism, compared to a simple lens. A single aspheric lens can often replace a much more complex multi-lens system. The resulting device is smaller and l

Aspheric lens - Wikipedia

Asphere Writer utility. The Asphere Writer utility is integrated in CODE V and generates machine-readable files for aspheric surfaces that can be directly read by optical fabricators, including QED Technologies' optical grinding, polishing, and metrology equipment and Zygo Corporation's metrology equipment.

Synopsys Announces Release 11.2 of CODE V Optical Design ...

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CODE V 10.3 delivers new design and analysis capabilities that enable optical designers to more easily take advantage of the unique image quality and cost benefits that aspheres offer. Aspheric surface shapes are used to help reduce or eliminate imperfect or blurred images in optical systems.

Asphere design tool from Synopsys offers support for Q ...

CODE V 10.3 delivers new design and analysis capabilities that enable optical designers to more easily take advantage of the unique image quality and cost benefits that aspheres offer. Aspheric surface shapes are used to help reduce or eliminate imperfect or blurred images in optical systems.

Optical Design Software aids production of aspheric lenses.

CODE V offers two new freeform surface shapes: Q2D Freeform Asphere and Extended Fringe Zernike. Both of these surface types can include X and Y offsets

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of the aspheric departure from the surface coordinate system and can redefine the Z axis of the surface coordinate system relative to the Z axis of the base conic.

Latest CODE V 11.3 Optical Design Software Comes with CAD ...

Effectively using aspheric surfaces in a design can help improve image quality, and the tools available in CODE V 10.3 help the designer to realize these performance benefits while still considering manufacturability and the cost of fabrication.

CODE V Optical Design Software - Version 10.3 Enhances ...

Asphera has a unique wide-range of capabilities providing single point diamond turned (IR Materials) , CNC polished (Diameters up to 300mm), and molded (Diameters as small as 0.8mm) custom aspheres per your specification. Proficient in all three methods of aspheric lens manufacturing, we can

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provide the best option for your custom specification.

ASPHERA - Custom Aspheres and Precision Optics Manufacturing

The general conversion equation for the phase coefficients from Code V to Zemax is $n P_n R S^2_2 0 0 2 2 \lambda \pi =$, (1) where P_{2n} is the Zemax phase coefficient, λ_0 the design wavelength, R_0 the normalized radius, a feature used with Zemax. S_2 is the Code V phase coefficient. n indicates the order. This will become clear in the following ...

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