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Optimax Offers Invaluable White Papers on Aspheres

Find out more about how to incorporate manufacturing needs into the aspheric design process to head off any issues as early as possible. Visit the Optimax white paper library to learn more.

Topics include:

- Asphere Manufacturing Considerations for the Designer
- Aspheric Glass Lens Modeling and Machining
- Introduction to Asphere Metrology
- Specifying, Manufacturing and Measuring Aspheric Lenses

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Aspheres Deal with Bigger Deviations

New tools and the integration of measurement capabilities into design software are helping to solve problems - and scientists in academic and government laboratories are researching tomorrow's solutions.

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Collaboration Makes Easily Manufactured Optical Metamaterials

Controlling the optics of metamaterials involves using complicated structures that are difficult to manufacture in large numbers and at small sizes at optical wavelengths. However, engineers are collaborating to change that with a nanonotch, fishnet-structured metamaterial that can be tuned to shape the dispersion over large bandwidths.

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Sophisticated Software Allows Complex Optical Design

Software has pushed the optics and photonics fields forward in myriad ways, sometimes with profound effects on business and culture. Would we have been able to take full advantage of the many technology advances in the past five decades - including the laser - if it weren't for optical design software?

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Telescopes Require Polishing to Perfection

As astronomy projects look deeper into space, polishing the optics becomes more and more critical.

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Property Management: A Review of Optical Materials

In general, optical materials can be broken down into categories, such as transmissivity vs. reflective or glass vs. ceramic vs. metal. Nonetheless, they are typically discussed only as the sum of their properties, or in terms of whether they exhibit the qualities necessary for the task at hand.

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Enabling Technology for Highly Aspheric or Free-Form Optics Manufacturing

Thursday, April 25, 2013 – 1 p.m. ET/10 a.m. PT



Photonics Media will host Dr. Dae Wook Kim, Research Professor, Large Optics and Fabrication Testing Research Group, College of Optical Sciences, University of Arizona. Dr. Kim will discuss new approaches for advancing the computer-controlled optical surfacing process for manufacturing highly aspheric or free-form optics, such as the 8.4-meter-diameter Giant Magellan Telescope off-axis primary segment at the U of A. He will also present actual data demonstrating the performance of the enhanced process to build next-generation optical systems.

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