





Optimizing Photonics & Optical Device Manufacturing. Precisely.



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### AIM Photonics Gets NY State Photonics Board Approval for \$27.5M in Funding The New York State Photonics board of directors approved a proposal

for the allocation of \$27.5 million to fund the AIM Photonics Test, Assembly, and Packaging (TAP) Facility in Rochester, N.Y. The proposal would see \$23 million go toward new equipment and tool upgrades to further enhance the TAP facility's R&D capabilities and \$4.5 million in operational support to amplify the consortium's collaboration with regional universities. Read Article



## Semiconductor Manufacturing Processes The Belgium-based research and innovation hub imec has developed a

Virtual Fab Helps to Reduce Carbon Footprint of

virtual fab model that enables the hub and its partners to assess current manufacturing choices, identify areas of focus, and project the future of the environmental impact of semiconductor manufacturing processes. Imec spotlighted the virtual fab at the 2023 SPIE Advanced Lithography + Patterning Conference in February as part of a quantitative assessment of the environmental impact of patterning in advanced IC manufacturing. Read Article



## Simultaneously Researchers at Fraunhofer IWS have developed a measuring technique

Single-Operation Method Analyzes Permeation Rates

for reliably determining the permeation rate of films. The method, which the researchers developed as part of the SimPerm project, looks at water vapor and oxygen permeation rates simultaneously reportedly for the first time, the researchers said.

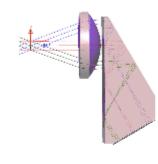
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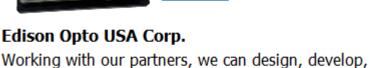
# Optical Design Software

Synopsys Inc., Optical

Interoperability features between CODE V® and LightTools® enable designers to easily simulate optical systems that contain imaging and non-

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imaging components with unparalleled speed and accuracy, from augmented reality headsets and head-up displays to smartphone optics and electrooptical systems. Visit Website Request Info



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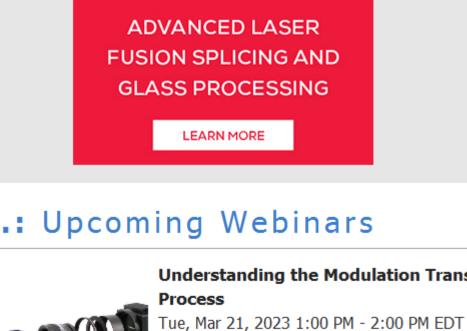
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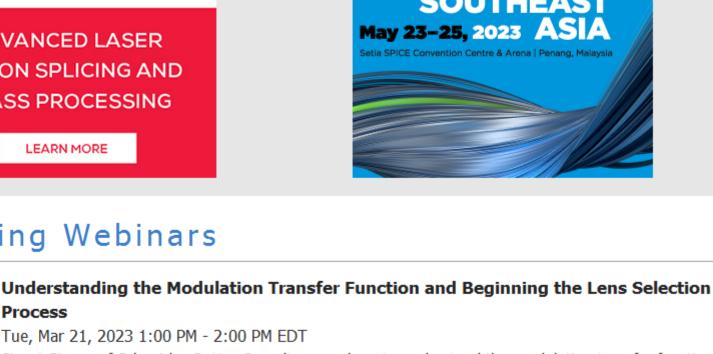
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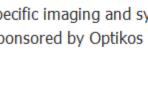
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## Stuart Singer of Schneider Optics, Inc. discusses how to understand the modulation transfer function (MTF) with respect to lens performance, while avoiding complex math such as fast Fourier transforms. The MTF is often the most important aspect of a lens because it shows how well a lens is able to



## specific imaging and system requirements. Finally, he details which lenses are appropriate for various imaging systems. Sponsored by Optikos Corporation and Navitar Inc.

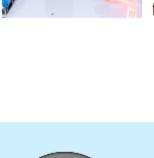
reproduce the object within its view. Singer shares the steps that are needed to begin selecting a proper lens that meets

AI for Vision-Guided Robotics Tue, Apr 4, 2023 1:00 PM - 2:00 PM EDT David Bruce of FANUC America Corp. discusses how the latest advancements in AI are helping to

extend the capabilities of vision-guided robots for many different industries, including automotive, logistics, food, and pharmaceutical. Bruce shares a basic understanding of D-CNNs and examples

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# from different industries that highlight how AI either improved a process or enabled it.



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