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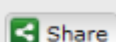
December 2015

With Fiber Comes Miles-Long and Multiplexed Sensors



How do you spot a landslide before it happens, or improve the efficiency of an airplane or rocket engine? Fiber may be the answer. Fiber sensors can transport interrogating light into otherwise unreachable places, and can measure vibration, strain, temperature, position and other parameters.

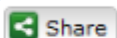
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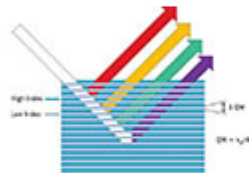
Fluorescence Spectroscopy: A Powerful Method for Surface Analysis

Time-integrated laser-induced fluorescence spectroscopy is one of the most sensitive techniques based on the interaction between light and matter. It works on the basis of registering direct radiation emitted by the substances to be detected, and offers exceptional detection sensitivity and spatial resolution.

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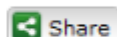


Thin-Film Optical Filters for Phase Control Applications



Phase control has been an important component in optical design in applications using ultrashort pulse lasers and high-data-rate telecommunications lasers. Now, phase control requirements are emerging in life sciences applications such as structured illumination and multiphoton microscopy.

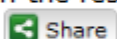
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Top Stories of 2015 from Photonics.com

As 2015 wraps up, the *Photonics Spectra* staff searched the Photonics.com archives to find the most viewed articles of the year, with an update on the research.

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Featured Products



Fiber Optic LED Light Source

USHIO America, Inc. The Midori™ ULB-35i LED light source series combines state-of-the-art, solid-state illumination technology with Ushio's distinctive optical design to create a compact and lightweight fiber-optic lightbox with very high output efficacy that is ideal for industrial applications where space is a premium.

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PixClear 4-pack in Ethyl Acetate

Pixelligent Technologies Pixelligent, the leader in high-index materials, is proud to announce the release of a new line of products that ease integration with applications such as Display and Printed Electronics and offer the same benefits to device performance.

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Permafect II Diffuse Coatings

Labsphere, Inc., Photonics Labsphere, Inc. has released its newest diffuse reflectance coating, Permafect II, to augment the well-established product line of Diffuse Reflectance Materials and Coatings which includes award-winning Spectralon®, industry-leader Spectrafect® and Infragold®.

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UV-enhanced Silicon Photodetectors

Electro-Optics Technology, Inc. For time domain and frequency response measurements, Electro-Optics Technology (EOT) has released the new ET-2070 Silicon UV-enhanced Photodetector featuring a 3ns rise time and fall time and a large active area of 2.55mm.

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