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LIGHT EXCHANGE



Highlights from the February 2013 issue of Photonics Spectra



Photonics Accelerates Bandwidth Race

Technological developments in photonics are the future of mobile communications, from speedy interconnects to novel types of fibers and lasers. How remarkable that the first iPhone was released just over five years ago, back in the "dinosaur-phone era" of 2007. It was only 10 years ago that PDAs (personal digital assistants) were the hottest tool to organize a busy life, even though accessing the Internet with one, much less a phone, was limited and remarkably expensive. Now, thanks to the phenomenal growth of smartphones and tablets, the demand for bandwidth is greater than ever.

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Data Demands Drive Free-Space Optics

Light-based options promise to pick up where radio-frequency technology leaves off. In wireless communications, things are getting crowded. Growing data demands are bumping up against radio frequency capacity. In response, researchers and companies are looking into using infrared, visible and ultraviolet light to provide point-to-point communication through air, space and water.

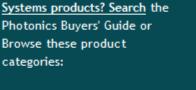
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PHOTONICS buyers' guide

Alexandrite Lasers

Aluminum-Free Diode Lasers

Looking for Lasers and Laser

Beamsplitters

2013

categories:

Laser Cutting Systems

Laser Diode Test Equipment Solid-State Laser Components

QDs Are Entering the Mainstream

Thermoelectric Cooler Controller Design Made Simpler

Unique and versatile, quantum dots are no longer confined to the fringes of abstract research. They are finding their way into televisions, computer screens, lighting devices and even our bodies. With the promise of better light quality and unparalleled color performance, these minute particles also are popping up in some surprising

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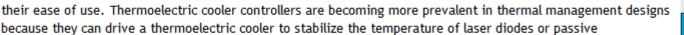


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components used in communications equipment. Read Article >>



because they can drive a thermoelectric cooler to stabilize the temperature of laser diodes or passive

For the purposes of maritime surveillance, including coastal water inspection and intervention in dangerous situations, images must be available quickly - ideally, in real time. Ground personnel and decision makers have to know immediately when water contamination is an issue or when objects such as lost loads are drifting in the water; the information is hardly useful when the detected objects have already drifted somewhere else.

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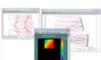
Exhibition 30 April to 2 May 2013



Tech Pulse Light Speed GreenLight

Editorial Comment Lighter Side

Products from this Issue



Optical Design Software

Synopsys, Inc., Optical Solutions



4- to 5-µm and 8-µm Isolators Innovation Photonics



Compact Interferometer Zygo Corp., Metrology Solutions Div.



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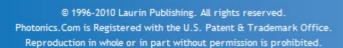
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