



OPTICAL UPDATE

Welcome to Tektronix Optical Update -- your way to stay a step ahead of industry developments.

**January 2003
Issue 2**

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Read on, and feel free to pass this newsletter along to your colleagues.

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[Precision Equipment for Operating and Testing Laser Diodes Net Seminar](#)

Tektronix is holding a net seminar on February 5th 2003 to discuss basic laser diode theory and operation. Emphasis will be on the types of testing and operational concerns that are of greatest interest to those who build transceivers or transmitters for optical fiber networks, and/or those who manufacture laser diode chips and assemblies. Emphasis will also be placed on equipment used to control the laser diode's drive current and temperature, both in terms of accuracy in test/operational results, as well as safeguarding the laser diode from accidental destruction.



[Register Now For February 5th!](#)

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[OFC 2003](#)

OFC is the largest & most highly regarded event in the fiber optics industry. And Tektronix will be there (booth # 3534) with solutions for designing, validating, and manufacturing next-generation communications systems, optical components and network elements.



Join the most progressive professionals and exhibiting companies at the only event to combine

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FREE NET SEMINARS

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[2003 Catalog](#)

high quality, peer-reviewed educational programming with a high-powered, commerce-driven exposition at Georgia World Congress Center in Atlanta, GA, from 25th - 27th March.

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[The Theory of Polarized Light](#)

Don't worry if you missed our Theory of Polarized Light Net Seminar by Duwayne Anderson, Tektronix Principal Engineer. We archived it for your convenience. The seminar discussed the electromagnetic nature of light from the classical point of view of a traveling wave, and investigated the nature of the generally polarized wave as the superposition of orthogonal linearly polarized waves. The seminar also discussed polarization ellipse, and how it maps to the Poincare sphere, the Stokes vector and how it maps to the Poincare sphere, and finished with a description of the Jones matrix/vector and a discussion of how these analysis tools are used to investigate the polarization characteristics of optical networks and components.



[View the NetSeminar archive.](#)

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[Helping Equipment Manufacturers Dramatically Cut Test Costs](#)

Current economic conditions in the optical market are driving equipment makers to seek cost-cutting strategies, including reduced cost-of-test. Optical tests require the use of costly stimulus sources such as optical transmitters and acquisition tools, including signal analyzers and bit error rate testers (BERT). The new Tektronix OSW 8000 Series Optical Switching Modules allow optical equipment designers and manufacturing test engineers to efficiently use these tools to reduce costs without compromising quality or productivity of the tests.

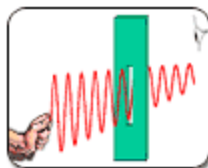


Find out [more information](#) or order a datasheet at the Literature Request link.

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[Get Your Free Polarization Mode Dispersion Solutions Pack NOW!](#)

Today's optical networks are currently straining to support data and voice needs. And the increase in bandwidth is an inevitable requirement. To support that requirement, manufacturers are striving to provide higher data rates beyond what is currently available on the market today (10 Gb/sec, 40 Gb/sec). While these advances will provide much needed support to alleviate bandwidth exhaustion,



they are also bringing with them new inherent challenges that haven't been seen before in lower rate systems. One of those challenges is in the form of managing dispersion effects on the system as a result of those higher data rates. One problem that results, polarization mode dispersion (PMD), causes pulse-broadening. PMD is not usually a problem at 2.5 Gb/sec and lower rates, but, at 10 Gb/sec and above, this pulse broadening can greatly diminish the data-carrying performance of a telecommunications network, if not managed properly.

As a result, it is important to understand the impact of PMD on high-speed optical networks. Tektronix can help by providing you technical expertise on PMD, and recommend ways to determine its source and monitor its impact.

Order your information pack now at the Literature Request Link. [Recommended Reading on PMD](#).

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[Test and Measurement Fundamentals](#)

Tektronix is engaged in a partnership with education by enabling colleges, universities and schools to equip their labs with leading-edge, award-winning products that help prepare students for a quick, smooth transition from school to the real world.



When educators choose Tektronix, they choose industry-standard equipment with ease of instruction and use, reliability and durability, safety and affordability. To further simplify instruction, we are offering a variety of [classroom and lab materials](#), free of charge. These materials can be used in classrooms and research facilities to help simplify instruction and learning.

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[ACT NOW to Save Up to 60% on Reconditioned Optical Products!](#)

Refurbished test equipment offers you an exceptional way to purchase **high-performance products at substantial discounts**. You'll not only save money, but you'll have complete confidence in the quality of your purchase. We carefully recondition each instrument and provide **the same warranty that comes with our new products**. Extended service options are also offered. Plus, many of our refurbished instruments are available for **immediate delivery**.



Want to know more? [Pricing and Availability](#).

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[Photonics West](#)

Photonics West has become North America's largest commercial exhibition on optics, lasers, biomedical optics, optoelectronic components, and imaging technologies. No other event covers the full range of applications and technologies and Tektronix will be on booth 6323 displaying its full range of optical test, measurement and monitoring solutions. The show takes place at the San Jose Convention Center and Parkside Hall, San Jose, CA, USA from January 28th-30th.



[More show information.](#)

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