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This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2003, and items from previous years that were commented upon or corrected in 2003. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Subject cross-references are included to assist in finding items of interest. Note that the item title is found only under the primary entry in the Author Index.

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Antennas; cf. Leaky wave antennas

Application specific integrated circuits

- design of large receiver and transmitter arrays for OE-VLSI applications. *Venditti, M.B.*, +, *J-LT Dec 03* 3406-3416

Application specific integrated circuits; cf. Mixed analog-digital integrated circuits

Approximation methods

- blocking perform. anal. of WDM all-opt. nets., effective method. *Jintao Xiong*, +, *J-LT Jun 03* 1421-1434
- FDTD BPM for TE- and TM-wave anal. *Shibayama, J.*, +, *J-LT Jul 03* 1709-1715
- opt. planar waveguides, birefr. control. *Xiuli Zhao*, +, *J-LT Oct 03* 2352-2357
- weakly guiding opt. fibers, closed WKB formulas. *Paiano, G.*, +, *J-LT Jan 03* 286-292

Arrays

- design of large receiver and transmitter arrays for OE-VLSI applications. *Venditti, M.B.*, +, *J-LT Dec 03* 3406-3416

Array signal processing

- multiple beam fiber-optic beamformer with binary array of delay lines. *Granieri, S.*, +, *J-LT Dec 03* (110) Dec 03 3262-3272

Asynchronous transfer mode

- all-opt. switch fabrics, generalized multiprotocol label switching. *Papadimitriou, G.I.*, +, *J-LT Feb 03* 384-405
- automatically switched opt. nets., PNNI-based control plane. *Sanchez-Lopez, S.*, +, *J-LT Nov 03* 2673-2682
- FLBM-based all-opt. packet switch, exact/approx. anal. modeling. *Singh, Y.N.*, +, *J-LT Mar 03* 719-726
- GMPLS nets., routing and protection. *Elwalid, A.*, +, *J-LT Nov 03* 2828-2838
- joint multilayer protection, packet-over-opt. nets., cost effectiveness. *Chunxiao Chigan*, +, *J-LT Nov 03* 2694-2704

Atomic clocks

- stabilizing optoelectronic microwave oscillator with photonic filters. *Strekalov, D.*, +, *J-LT Dec 03* 3052-3061

Atomic force microscopy

- germano-silica planar waveguides, 157-nm F₂ laser radiation photosensitivity. *Chen, K.P.*, +, *J-LT Jan 03* 140-148
- VUV laser-induced refr.-index change and birefr., std. opt. fibers. *Chen, K.P.*, +, *J-LT Sep 03* 1969-1977

Attenuation measurement

- near-field and far-field attenuation models for free-space variable optical attenuators. *Zhang, X.M.*, +, *J-LT Dec 03* 3417-3426

Avalanche diodes; cf. Avalanche photodiodes

Avalanche photodiodes

- burst-mode receivers, avalanche photodiodes, sensitivity penalty calc. *Ossieur, P.*, +, *J-LT Nov 03* 2565-2575
- free space opt. PPM CDMA systs. *Ohtsuki, T.*, *J-LT Feb 03* 406-411
- impulse response, ionization PDF. *Tan, C.H.*, +, *J-LT Jan 03* 155-159