

Papers by Bell Laboratories Authors

BIOLOGY

Interaction of Rabbit Hemopexin with Bilirubin. W. T. Morgan, U. Muller-Eberhard, and A. A. Lamola, *Biochim. Biophys. Acta.*, 532 (1978), pp. 57-64.

On Perceptual Analyzers Underlying Visual Texture Discrimination—Part II. T. Caelli, B. Julesz, and E. N. Gilbert, *Biol. Cybern.*, 29 (1978), pp. 201-214.

CHEMISTRY

The Linear Electric Field Effect in Stellacyanin, Azurin and in Some Simple Copper Model Compounds. J. Peisach and W. B. Mims, *Eur. J. Biochem.*, 84, (1978), pp. 207-214.

COMPUTING

An Application of Bin-Packing to Multiprocessor Scheduling. E. G. Coffman, Jr., M. R. Garey, D. S. Johnson, *SIAM Comput.*, 7 (1978), pp. 1-17.

Checksum Versus Residue Codes for Multiple Error Detection. Alan M. Usas, *Proc. Int. Symposium on Fault-Tolerant Computing, Toulouse, France (June 1978)*, p. 224.

ELECTRICAL AND ELECTRONIC ENGINEERING

The Coming of Age of Optical Fiber Transmission. T. Li, *Proc. IEEE International Symposium on Circuits and Systems (May 1978)*, pp. 17-19.

Digital Techniques for Communication Signal Processing. K. V. Mina, V. B. Lawrence, and J. J. Werner, *IEEE Commun. Soc. Mag.*, 16, No. 1 (January 1978), pp. 18-22.

Electro-optic Multimode Waveguide Switch Employing Nonuniform Change of Refractive Index. T. Li and J. C. Campbell, *Tech. Digest, Topical Meeting on Integrated and Guided Wave Optics (January 1978)*, pp. PD5-1—PD5-4.

Frequency and Bias Dependence of Video Distortion in Burns-Type Homostructure and Heterostructure LED's. Robert W. Dawson, *IEEE Trans. Electron.*, ED-25, No. 5 (May 1978), pp. 550-551.

Measurement of Single-Mode Fiber Core-Cladding Concentricity. A. R. Tynes, R. M. Derosier, and W. G. French, *Electron. Lett.*, 14 (February 1978), pp. 113-115.

Optical-Fiber Communication—The State of the Art. T. Li, *IEEE Trans. Commun.*, COM-26 (July 1978), pp. 949-955.

Oversampled, Linear Predictive and Noise-Shaping Coders of Order $N > 1$. S. K. Tewksbury and R. W. Hallock, *IEEE Trans. Circuits Syst.*, CAS-25, No. 7 (July 1978), pp. 436-447.

1.1 Gb/s Pseudorandom Pulse-Code Modulation of 1.27 μm Wavelength. C.W. InGaAsP/InP D.H. Lasers. S. M. Abbott, W. M. Muska, T. P. Lee, A. G. Dentai, and C. A. Burrus, *Electron. Lett.*, 14 (May 1978), pp. 349-350.

Separation of NTSC Signals by Minimum Mean Square Error Filters and Adaptive Filters. N. F. Maxemchuk and D. K. Sharma, *IEEE Trans. Comm.*, COM-26 (May 1978), pp. 583-593.

Terminology Related to the Performance of S/H, A/D and D/A Circuits. S. K. Tewksbury, F. C. Meyer, D. C. Rollenhagen, H. K. Schoenwetter, and T. M. Souders, *IEEE Trans. Circuits Syst.*, CAS-25, No. 7 (July 1978), pp. 419-426.

GENERAL MATHEMATICS AND STATISTICS

Codes Over GF(4) and Complex Lattices. N. J. Sloane, *J. Algebra*, 52, No. 1 (May 1978), pp. 168-181.

Multidimensional Scaling. J. B. Kruskal and M. Wish, *Quantitative Applications in the Social Sciences*, Sage Publications, Series/Number 07-011 (1978), pp. 1-93.

MATERIALS SCIENCE

Oxidation of Tin: Au ESCA Study. C. L. Lau, G. K. Wertheim, *J. Vac. Sci. Technol.*, 15 (March-April 1978), pp. 622-624.

Screening of 3d Holes in Rare Earths. G. K. Wertheim and M. Campagna, *Solid State Commun.*, 26 (1978), pp. 553-556.

PHYSICS

An Accurate Josephson Junction Analog. J. H. Magerlein, *Rev. Sci. Instr.*, 49 (1978), pp. 486.

Apparatus for High-Resolution Surface Tension Measurements. J. H. Magerlein and T. M. Sanders, *Rev. Sci. Instr.*, 49 (1978) pp. 94.

Carbon Dioxide Laser Scattering. C. M. Surko, *Bull. Am. Phys. Soc.*, 23 (May/June 1978), pp. 692.

The Carbon K-Edge in Graphite Measured Using Electron Energy Loss Spectroscopy. B. M. Kincaid, A. E. Meixner, and P. M. Platzman, *Phys. Rev. Lett.*, 40 (May 1978), pp. 1296-1299.

Charge Density Waves Observed by ^{181}Ta Mössbauer Effect. L. Pfeiffer, M. Eibschüte, and D. Salomon, *Hyperfine Interactions*, 4 (1978), pp. 803-805.

Conduction Band of TiO_{1+x} . G. K. Wertheim and D. N. E. Buchanan, *Phys. Rev. B*, 17 (March 1978), pp. 2780-2781.

The Diffraction of He Atoms at a Si(100) Surface. M. J. Cardillo and G. E. Becker, *Phys. Rev. Lett.*, 40 (April 1978), pp. 1148-1151.

Divalent Surface State on Metallic Samariums. G. K. Wertheim and G. Crecelius, *Phys. Rev. Lett.*, 40 (March 1978), pp. 813-816.

The Generation of Periodic Surface Corrugations. L. F. Johnson, G. W. Kammlott, and K. A. Ingersol, *Appl. Opt.*, 17 (April 1978), pp. 1165-1181.

High-Power Fundamental-Transverse-Mode Strip Buried Heterostructure Lasers With Linear Light-Current Characteristics. W. T. Tsang, R. A. Logan, and M. Illeggams, *Appl. Phys. Lett.*, 32 (March 1978), pp. 311-314.

Nd:Y₂O₃ Single-Crystal Fiber Laser: Room-Temperature CW Operation at 1.07- and 1.35- μ m Wavelength. J. Stone and C. A. Burrus, *J. Appl. Phys.*, 49 (April 1978), pp. 2281-2287.

A New Inter-Impurity Recombination in GaP; Revised Values for Acceptor Binding Energies. M. D. Sturge, A. T. Vink, F. P. J. Kuipers, *Appl. Phys. Lett.*, 49 (January 1978), pp. 49-51.

Optical Surface Waves in Periodic Layered Media. P. Yeh, A. Yariv, and A. Y. Cho, *Appl. Phys. Lett.*, 32 (January 1978), pp. 104-105.

A Rapid-Scan Area Coverage Satellite. D. O. Reudink and Y. S. Yeh, *AIAA 7th Communications Satellite Systems Conference*, CP782 (April 1978), pp. 137-145.

The Riddle of Cosmic Deuterium. A. A. Penzias, *Amer. Sci.*, 66, No. 3 (May-June 1978), pp. 291-297.

Room-Temperature Continuous Operation of a Ruby Fiber Laser. C. A. Burrus and J. Stone, *J. Appl. Phys.*, 49 (June 1978), pp. 3118-3123.

X-ray Photoelectron Spectroscopy of Solids. G. K. Wertheim, *Electron and Ion Spectroscopy of Solids* (1978), pp. 192-229.

SYSTEMS ENGINEERING AND OPERATIONS RESEARCH

Performance Guarantees for Scheduling Algorithms. M. R. Garey, R. L. Graham, and D. S. Johnson, *Oper. Res.*, 26 (1978), pp. 3-21.

Prospects for Lower Cost Telephone Exchange Service. D. Gillette, *Public Util. Fortn.* (May 1978), pp. 39-40.

Remarks by Dean Gillette. D. Gillette, 89th NARUC Annual Convention Proceedings (1978), pp. 353-356.

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