

Papers by Bell Laboratories Authors

PHYSICAL SCIENCES

The Activation of the Carbon Nitrogen Double Bond by Copper (I). Steven H. Bertz, *J Org Chem*, 44 (1979), pp 4967-69.

On the Bremmer Series Decomposition: Equivalence Between Two Different Approaches. F. Aminzadeh and J. M. Mendel, *Geophy Prosp*, 28, No 1 (Feb 1980), pp 71-84.

Electrical Properties of Ge-doped p-type $\text{Al}_x\text{Ga}_{1-x}\text{As}$. S. Zukotynski, S. Sumski, M. B. Panish, and H. C. Casey, Jr., *J App Sci*, 50 (Sept 1979), pp 5795-99.

Ferroelectric-Ferroelastic $\text{Tb}_2(\text{MoO}_4)_3$: Room Temperature Crystal Structure of the Transition-metal Molybdates. VII. C. Svensson, S. C. Abrahams, and J. L. Bernstein, *J Chem Phys*, 71 (Dec 1979), pp 5191-95.

Interference Between Intra and Inter Manifold Couplings in Resonance Raman Spectra of Metalloporphyrins. M. Z. Zgierski, J. A. Shelnutt, and M. Pawlikowski, *Chem Phys Lett*, 68 (Dec 1979), pp 262-66.

Laevorothatory $\text{Bi}_{12}\text{GeO}_{20}$: Remeasurement of the Structure. C. Svensson, S. C. Abrahams, and J. L. Bernstein, *Acta Crystallogra*, 35 (Nov 1979), pp 2687-90.

Optical Properties of the Metallic Glass $\text{Pd}_{0.775}\text{Cu}_{0.06}\text{Si}_{0.165}$ Over the Energy Range 0.67 to 5.6 ev. F. Meyer, J. H. Buster, B. G. Bagley, and D. E. Aspnes, *J Non-Crys Solid*, 34 (1979), pp 441-44.

Red Display Structures Having Dynamic Hysteresis Characteristics. L. J. VanUitert, I. Camlibel, R. M. Delarue, T. R. Kyle, R. Pawelek, S. Singh, H. J. Stocker, and G. J. Zydzik, *Appl Phys Lett*, 34, No. 3 (Feb 1979), pp 232-4.

Study of the Valence Transition in Eu-, Yb-, and Ca-Substituted SMS Under High Pressure and Some Comments on Other Substitutions. A. Jayaraman and R. G. Maines, *Phys Rev B*, 19, No. 8 (Apr 1979), pp 4154-61.

Structure of Glassy Zr-Cu and Nb-Ni Alloys. H. S. Chen and Y. Waseda, *Phys Status Solid*, 51 No. 2 (Feb 1979), pp 593-9.

Symmetry Perception and Spatial Frequency Channels. B. Julesz and J. J. Chang, 8-6 (1979), pp 711-8.

Unusual Optical Emission from Microcrystals Containing Eu^{2+} Experiment. R. L. Fork and D. W. Taylor, *Phys Rev B*, 19, No. 7 (Apr 1979), pp 3365-98.

The Vibrationally Resolved Electronic Spectrum of the Sym-Trichlorobenzene Radical Cation in Gas and Condensed Phases. T. A. Miller, V. E. Bondybey, and J. H. English, *J Chem Phys*, 70 No. 6 (Mar 1979), pp 2919-25.

X-Ray Diffraction and Dielectric Temperature Dependence Study of the Paraelastic-Ferroelastic Phase Transition. F. Lissalde, S. C. Abrahams, J. L. Bernstein, and K. Nassau, *J Appl Phys*, 50, No. 2 (Feb 1979), pp 845-51.

MATHEMATICS

Problem E2741. H. S. Witsenhausen, *Amer Math Monthly*, 87 (Jan 1980), pp 62-3.

Robust Estimation of Power Spectra. B. Kleiner, R. D. Martin, and D. D. Thomson, *J Royal Stat Soc Ser B*, 41 (1979), pp 313-51.

COMPUTING

Proof of the Equivalent Realizability of a Time-Bounded Arbiter and a Runt-Free Inertial Delay. B. I. Strom, *Proc 6th Ann Int Symp Comput Architect*, Apr 23, 1979, pp 178-81.

Sizing a Message Store Subject to Blocking Criteria. E. Authurs and J. S. Kaufman, *Proc 4th Intl Sym Modelling and Perform Com Sys* (1979).

Structuring Programs for Efficient Operation in Virtual Memory Systems. A. L. Barrese and S. D. Shapiro, *IEEE Trans Software Eng*, SE-5 (1979), pp 643-52.

ENGINEERING

Apparatus for Collecting Voice Chronography Data. Earl F. Brown, *Behavior Research Meth & Instrum*, 6 (1979), pp 553-7.

Circuit Pack Test Development for the 3B Processor. J. T. Mahoney, *Bell Sys Circuit Pack Conf* (Sept 1979), pp 122-2G.

Digital Filters—An Overview. F. J. Witt, *Proc 33rd Ann Freq Con Symp* (Dec 1979), pp 206-8.

Dissociation of GaAs and Ga_{0.7}Al_{0.3} As During Alloying of Gold Contact Films. E. Kinsbrow, P. K. Gallagher, and A. T. English, *Solid State Electronics*, 22 (1979), pp 517-24.

Distortion Criteria of the Human Viewer. J. O. Limb, *IEEE Trans on Sys Man & Cybern*, 9, No. 12 (Dec 1979), pp 778-93.

The Effect of High-Current Density Stressing on Pre-Existing Voids in Thin Gold Films. J. R. Lloyd and S. Nakahara, *Thin Solid Films*, 64 (1979), pp 163.

Extension Flexure, and Shear Modes in Rotated X-Cut Quartz Rectangular Bars. T. R. Meeker, *Proc 33rd Annual Sym on Freq Control*, 33 (1979), pp 286-92.

Failure of Small Thin Film Conductor Due to High Current-Density Pulses. E. Kinsbron, C. M. Melliar-Smith, and A. T. English, *IEEE Trans on Electron Devices*, ED-26 (1979), pp 22-6.

High Avalanche Gain in Small Area InP Photodiodes. T. P. Lee, C. A. Burrus, A. G. Dentai, A. A. Ballman, and W. A. Bonner, *Appl Phys Lett*, 35 (Oct 1979), pp 511-3.

The Use of High Magnetic Fields in the Spectroscopy of Simple Atoms and Molecules. T. A. Miller, J. Magn, and Magn Mater, 11 No. 1-3 (Apr 1979), pp 259-68.

A "Human Simulation" Validation of a Telephone Loop Network Simulation Model. H. T. Freedman, T. R. Harms, and W. L. G. Koontz, *Winter Simulation Conf*, 1 (Dec 1979), pp 166-78.

InGaAsP p-i-n Photodiodes with Low Dark Current and Small Capacitance. C. A. Burrus, A. G. Dentai, and T. P. Lee, *Electron Lett*, 15 (Sept 1979), pp 655-7.

Low-Noise Optical Detection of a 1.1Gb/s Optical Data Stream. S. M. Abbott and W. M. Muska, *Electron Lett*, 15, (Apr 1979), pp 250-2.

Notes on Ion Implantation in Bubble Devices—Joint Intermag-MMM Conference. R. Wolfe, *IEEE Magn Soc Newslett*, 15, No. 2 (1979).

Optical Sources. C. A. Burrus, H. C. Casey, and T. Li in *Optical Fiber Telecommunications*, S. E. Miller and A. G. Chynoweth, eds., (1979), pp 499-556.

Phase-Matched Second-Harmonic Generation in Vapor-Grown GaP Ribbon Waveguides. J. Stone, C. A. Burrus, and R. D. Standley, *J App Phys*, 50 (Dec 1979), pp 7906-13.

A Review of the New IEEE Standard on Piezoelectricity. T. R. Meeker, *Proc 33rd Annual Sym on Freq Control*, 33 (1979), pp 176-80.

Rydberg Series of Atomic He by Opto-Galvanic Spectroscopy. D. H. Katayama, J. M. Cook, V. E. Bondybey, and T. A. Miller, *Chem Phys Lett*, 62, No. 3 (Apr 1979), pp 542-6.

Self-Contained Integrated Bistable Optical Devices. P. W. Smith, I. P. Kaminow, P. J. Maloney, and L. W. Stulz, *App Phys Lett*, 34, No. 1 (Jan 1979), pp 62-5.

Servo Tuning and Stabilization of Nonlinear Optical Crystals. G. C. Bjorklund and R. H. Storz, *IEEE J Quant Electron*, 15, No. 4 (Apr 1979), pp 228-32.

Short-Time Fourier Analysis Techniques for FIR System Identification and Power Spectrum Estimation. L. R. Rabiner and J. B. Allen, *IEEE Trans Acoust Speech Sig Pro*, 27, No. 2 (Apr 1979), pp 182-92.

Single-Polarization Optical Fibers Slab Model. I. P. Kaminow and V. Ramaswamy, *Appl Phys Lett*, 34, No. 4 (Feb 1979), pp 268-70.

Statistical Properties of an LPC Distance Measure. J. M. Tribolet, L. R. Rabiner, and M. M. Sondhi, *IEEE Intl Acous Speech & Sig Pro Conf* (1979), pp 739-43.

Structure of Amorphous $(\text{Ge, Si})_{1-x}\text{-Y}_x$ Alloys. J. C. Phillips, *Phys Rev Lett*, **42**, No. 17 (Apr 1979), pp 1151-4.

Study of the Orientational Electric Field Effect in ^3He -8. M. A. Paalanen, M. C. Cross, W. O. Sprenger, W. Can Roosbroeck, and D. D. Osheroff, *J Low Temp Phys*, **34**, No. 5-6 (Mar 1979), pp 607-16.

Surface-Acoustic-Wave Resonator Filters. L. A. Coldren and R. L. Rosenberg, *Proc IEEE*, **67**, No. 1 (Jan 1979), pp 147-58.

On the Use of Symmetry in FFT Computation. L. R. Rabiner, *IEEE Trans Acoust Speech & Sig Proc*, **27**, No. 3 (June 1979), pp 233-9.

Synchrotron-Radiation Photoemission Spectroscopy of Octahedrally Coordinated Layer Compounds. G. Margaritondo and J. E. Rowe, *Phys Rev B*, **19**, No. 6 (Mar 1979), pp 3266-75.

Tapered Waveguides for Guided Wave Optics. J. C. Campbell, *App Opt*, **18**, No. 6 (Mar 1979), pp 900-2.

Theory of the Heats of Formation of Transition-Metal Alloys. D. G. Pettifor, *Phys Rev Lett*, **42**, No. 13 (Mar 1979), pp 846-50.

Transmission Losses of Concatenated, Connectorized Fiber Cables. P. Kaiser and D. L. Bisbee, *IEEE Opt Fiber Commun* (Mar 1979).

Tunable Stimulated Raman Scattering in the Far Infrared. C. K. N. Patel and Y. Yafet, *Appl Phys Lett*, **34**, No. 5 (Mar 1979), pp 318-21.

Ultra-High-Gain Laser-Produced Plasma Laser in Xenon Using Periodic Pumping. W. T. Silfast, L. H. Szeto, and O. R. Wood, II, *Appl Phys Lett*, **34**, No. 3 (Feb 1979), pp 213-5.

