

Papers by Bell Laboratories Authors

PHYSICAL SCIENCES

Effects of Heat Treatment on Surface Conditions of Iron-Nickel Alloys and the Influence on Mercury Switch Behavior. J. E. Bennett, IEEE Trans CHMT, 3, No. 1 (Mar 1980), pp 172-80.

Ferroelectric-ferroelastic $Tb_2(MoO_4)_3$ Crystal Structure Temperature Dependence from 298K through the Transition at 436K to the Antiferroelectric-Paraelastic Phase at 523K. S. C. Abrahams, C. Svensson and J. L. Bernstein, J Chem Phys, 72 (Apr 1980), pp 4278-85.

Hydrogen Passivation of Point Defects in Silicon. J. L. Benton, C. J. Doherty, S. D. Ferris, D. L. Flamm, L. C. Kinerling and H. J. Leamy, Appl Phys Lett, 36 (Apr 1980), pp 670-1.

Some Applications of Thermomagnetometry to the Study of Chromindur Alloys. P. K. Gallagher, E. Coleman, S. Jin and R. C. Sherwood, Thermochim Acta, 37 (1980), pp 291-300.

Switched Photodissociation: A Proposal for the Inversion on Atomic and Molecular Species. J. C. White, Opt Lett, 5 (May 1980), pp 199-201.

X-Ray Diffraction Study of Interdiffusion and Growth in $(GaAs)_n(AlAs)_m$. R. M. Fleming, D. B. McWhan, A. C. Goddard, W. Wiegmann and R. A. Logan, J Appl Phys, 51, No. 1 (Jan 1980), pp 357-63.

MATHEMATICS

Analyzing Clustering Effects Across Time. D. M. Dunn and J. M. Landwehr, J Amer Stat Assoc, 75 (Mar 1980), pp 8-15.

Uniform Conditional Stochastic Order. W. Whitt, J Appl Probability, 17 (Mar 1980), pp 112-123.

COMPUTING

Computer Automation of a Radioimmunoassay System. G. Fowler, P. Mitchell and A. W. Bennett, 12th Ann Southeast Sym on Sys Theory, 12 (May 1980), pp 239-42.

Letter—On Attracting Computer Science Faculty—In ACM Forum. R. F. Rosin, Commun of ACM, 23 (May 1980), pp 310-1.

ENGINEERING

Automatic Layout of Custom MOS/LSI Integrated Circuits. D. G. Schweikert, Proc 1980 Custom Integ Cir Conf (1980), pp 99-100.

The Effect of Oxygen, Salt Concentration and ph on Galvanic Cells Between Carbon Filled Polyethylene Cathode and Various Metal Anodes. G. Schick, J Test & Evaluation, 8, No. 3 (May 1980), pp 143-54.

Efficient Waveguide Electro-optic TE \rightleftharpoons TM Mode Converter/Wavelength Filter. R. C. Alferness, Appl Phys Lett, 36 (Apr 1980), pp 513-5.

Electrical Conductivity in Amorphous Si (O or H)-A-Films. J. J. Hauser, Solid State Commun, 34 (May 1980), pp 321-4.

Electron Energy Loss Spectroscopy. D. C. Joy and D. M. Maher, J Phys E, 13 (Jan 1980), pp 1-11.

Evidence for Void Interconnection in Evaporated Amorphous Silicon from Epitaxial Crystallization Measurements. J. C. Bean and J. M. Poate, Appl Phys Lett, 36, No. 1 (Jan 1980), pp 59-61.

Do Flame Retardants Affect the Reliability of Molded Plastic Packages? L. G. Feinstein, Proc 30th Electr Comp Conf (1980), pp 106-12.

GaAs/AlAs Layered Films. A. C. Goddard, Thin Solid Films, 57 (1979), pp 3-13.

GaInAsP/InP Laser with Monolithically Integrated Monitoring Detector. K. Iga and B. I. Miller, Electron Lett, 16 (Apr 1980), pp 342-3.

A General Active Switched Capacitor Biquad Topology for Precision MOS Filters. K. R. Laker and P. E. Fleischer, Proc 1980 IEEE Intl Sym on Cir & Sys, 1 (Apr 1980), pp 304-8.

A Granular Aluminum Superconducting Bolometer as a Molecular Beam Detector. M. J. Cardillo, G. E. Becker, G. D. Kubiak, V. Narayananamurti and M. A. Chin, 17, No. 1 (1980), pp 130-3.

Growth of Thin Silicon Films on Sapphire and Spinel by Molecular Beam Epitaxy. J. C. Bean, Appl Phys Lett, 36 (1980), pp 741-3.

Hardware Implementation of Digital Filters II—Signal Processors; and Application of Digital Filtering to Telecommunications Systems. S. L. Freeny, Commun Eng Colloq (1980), pp 117-46.

Influence of Growth Conditions on the Threshold Current Density of Double-Heterostructure Lasers Prepared by Molecular Beam Epitaxy. A. Y. Cho, H. C. Casey, Jr., C. Radice and P. W. Foy, Electron Lett, 16 (Jan 1980), pp 72-4.

Influence of Some Geometric Factors on Contact Resistance Probe Measurements. M. R. Pinnel and K. F. Bradford, IEEE Trans on Comp, Hyb & Manu Tech, 3 (Mar 1980), pp 159-65.

Investigation of Microplasmas on InP Avalanche Photodiodes. F. Capasso, P. M. Petroff, W. A. Bonner and S. Sumski, IEEE Electron Device Lett (Mar 1980), pp 647-9.

Low Leakage Current and Saturated Reverse Characteristic on Broad Area InGaAsP Diodes. F. Capasso, R. A. Logan, P. W. Foy, S. Sumski and D. D. Manchon, Electron Lett, 16, No. 7 (Mar 1980), pp 241-2.

Measurement of Oxygen Gradients and Resultant Strains in Ferrites. P. Blann, D. W. Johnson, Jr., and P. K. Gallagher, Amer Ceram Soc Bull, 59 (May 1980), pp 553-4.

Metallography, Bees Wax and Shaving Cream. M. E. Davis and T. J. Louzon, Metallography, 13 (Feb 1980), pp 195-200.

Molecular Beam Epitaxy. M. B. Panish and A. Y. Cho, IEEE Spectrum, 17, No. 4 (Apr 1980), pp 18-23.

Narrow Beam Emission of Slow Positrons from Negative Affinity Surfaces. C. A. Murray and A. P. Mills, Jr., Solid State Commun, 34, No. 10 (1980), pp 789-94.

New Rectifying Semiconductor Structure by Molecular Beam Epitaxy. A. L. Allyn, A. C. Gossard and W. Wiegman, Appl Phys Lett, 36, No. 5 (Mar 1980), pp 373-6.

Nonradiative Recombination at Dislocations in III-V Compound Semiconductors. P. M. Petroff, R. A. Logan and A. Savage, Phys Rev Lett, 44, No. 4 (Jan 1980), pp 287-91.

Observation of Magnetophonon Resonances in a Two-Dimensional Electronic System. D. C. Tsui, Th. Englert, A. Y. Cho and A. C. Goddard, Phys Rev Lett, 44, No. 5 (Feb 1980), pp 341-4.

An Optimal Design of LSI CMOS Polycells. S. M. Kang, Proc 1980 Intl Sym on Cir & Sys, 3 (Apr 1980), pp 1008-10.

Picture Coding: A Review. A. N. Netravali and J. O. Limb, Proc IEEE, 68, No. 3 (Mar 1980), pp 366-406.

Plasma Deposited Silicon Nitride Films. A. K. Sinha, Solid State Tech, 23 (Apr 1980), pp 133-36.

Selective Transmission of High-Frequency Phonons by a Superlattice: The Dielectric Phonon Filter. V. Narayananamurti, H. L. Stormer, M. A. Chin, A. C. Gossard and W. Wiegman, Phys Rev Lett, 43, No. 27 (Dec 1979), pp 2012-6.

Some Aspects of Convexity Useful in Information Theory. H. S. Witsenhausen, IEEE Trans Info Theory, 26 (May 1980), pp 265-71.

The Surface Photovoltage of Polymethine Semiconducting Films. M. E. Musser and S. C. Dahlberg, J Chem Phys, 72 (1980), pp 4084-8.

Ta Thin Film Capacitors with Al Underlay for High Frequency Applications. L. G. Feinstein and R. J. Pagano, Proc 30th Electr Comp Conf (1980), pp 402-9.

Theoretical Duration and Amplitude of an FM Click. A. J. Rainal, IEEE Trans on Info Theory, 26 (May 1980), pp 369-72.

Threshold Adjacent to a Luminance Edge. J. O. Limb, Tech Digest Topical Meeting on Recent Advances in Vision.

Thresholds at Luminance Edges Under Stabilized Viewing Conditions. J. O. Limb, J Opt Soc Amer, 70, No. 4 (Apr 1980), pp 418-22.

Very High Quantum Efficiency GaSb Mesa Photodetectors Between 1.3 and 1.6 μ m. F. Capasso, M. B. Panish, S. Sumski and P. W. Foy, Appl Phy Lett, 36, No. 2 (Jan 1980), pp 165-7.

SOCIAL AND LIFE SCIENCES

Making Good Use of AERA Meetings: Thoughts for Newcomers and Old War-Horses. E. Z. Rothkopf and T. J. Shuell, Educ Researcher, 9 (Mar 1980), pp 14-7.

The Quality Standard for Multiple Group Categories. B. S. Liebesman, ASQC Tech Conf Trans (May 1980), pp 468-74.

MANAGEMENT AND ECONOMICS

Telecommunications Technology. D. Gillette, The Wall Street Transcript, LXVIII, No. 5 (May 1980), pp 57, 839-40.

