

## PAPERS BY BELL LABORATORIES AUTHORS

### COMPUTING/MATHEMATICS

**Machine-Readable Output From Online Searches.** D. T. Hawkins, J Amer Soc Info Sci, 32, No. 4 (July 1981), pp 253-6.

**Maximum Likelihood Ridge Regression and the Shrinkage Pattern Hypotheses.** R. L. Obenchain, Inst Math Statist Bull, 10, No. 1 (January 1981), pp 37.

### ENGINEERING

**Analysis and Prediction of Cross Polarization on Earth Space Links.** T. S. Chu, Annales des Télécommun, France, 36, No. 1-2 (January-February 1981), pp 140-7.

**Automatic Component Placement in an Interactive Minicomputer Environment.** F. Shupe, ACM IEEE Eighteenth Design Automation Conf Proc (June 1981), pp 145-52.

**On the Effect of Uplink Noise on a Nonlinear Digital Satellite Channel.** M. L. Steinberger, P. Balaban, and K. S. Shanmugam, 1981 Int Commun Conf Record, 1 (June 1981), pp. 20.2.1-5.

**Evaluation of Advanced Switching Technologies for Integrated Voice/Data Applications.** A. M. Rudrapatna, IEEE Commun Magazine, 19, No. 2 (March 1981), pp. 38-44.

**Laser Processing in Silicon Microelectronics Technology.** H. J. Leamy, 1981 Proc Univ/Gov Ind Microelectron Symp, Catalogue No. 81CH1620-4, New York: IEEE, 1981, pp VI-I-II.

**LSI Product Quality and Fault Coverage.** V. D. Agrawal, S. C. Weth, and P. Agrawal, ACM IEEE Eighteenth Design Automation Conf Proc (June 1981), pp 196-203.

**A Moisture Protection Screening Test For Hybrid Circuit Encapsulants.** R. G. Mancke, Proc 1981-31st Electron Components Conf (1981), pp 119-25.

**Reliability Considerations for Metallized Plastic Film Capacitors Under High-Stress AC Waveforms.** R. A. Frantz, 1981 Power Electronics Specialists Conf Record (June 1981), pp 81-90.

**A Photoconductive Detector for High-Speed Fiber Communication.** J. C. Gammel, G. M. Metze, and J. M. Ballantyne, IEEE Trans Electron Devices, ED-28, No. 7 (July 1981), pp 841-9.

**The Pseudoelastic Force Balance and its Application to  $\beta$  Fe-Be Alloys.** M. L. Green, M. Cohen, and G. B. Olson, Matls Sci and Eng, 50, No. 1 (1981), pp 109-16.

**Scattered Light Speckle Metrology.** T. D. Dudderar and P. G. Simpkins, Proc OSA Topical Meeting Hologram Interferometry and Speckle Metrology (June 1980), pp 71-5.

**Technologies and Future Trends in Rectifiers for Customer Premises Telecommunications Systems.** C. O. Riddleberger, IEE 1981 Proc Third Int Telecommun Energy Conf, No. 196 (May 1981), pp 313-8.

**Transmission Cathodoluminescence as a Screening Technique for Rake Lines in (Al, Ga) as DH Laser Material.** C. A. Gaw and C. L. Reynolds, Jr., Electron Lett, 17, No. 8 (April 16, 1981), pp 285-6.

### PHYSICAL SCIENCES

**Aging Behavior of Piezoelectric Poly(vinylidene Fluoride) Films Irradiated by  $\gamma$  Rays.** T. T. Wang, J Poly Sci, Polymer Lett Ed, 19 (June 1981), pp 289-93.

**The b-Component of the Transition Moment for the  $v_2$  Band of Nitric Acid Vapor.** L. A. Farrow and R. E. Richton, J Chem Phys, 74, No. 10 (May 1981), pp 5474-8.

**Efficient Solar to Chemical Conversion: 12% Efficient Photoassisted Electrolysis in the p-Type InP(Ru) HCl-KCl/Pt(Rh) Cell.** A. Heller and R. G. Vadimsky, Phys Rev Lett, 46, No. 17 (April 27, 1981), pp 1153-60.

- The First General Index of Molecular Complexity.** S. H. Bertz, J Am Chem Soc, 103 (July 1981), pp 3599-601.
- The Hydrolytic Stability of Some Commercially Available Polycarbonates.** C. A. Pryde, P. G. Kelleher, M. Y. Hellman, and R. P. Wentz, Soc Plastics Engineers 39th Annual Technical Conf, Technical Papers, 28 (May 1981), pp 98-100.
- Pulsed Opto-Acoustic Spectroscopy of Condensed Matter.** C. K. N. Patel and A. C. Tam, Rev Mod Phys, 53, No. 3 (July 1981), pp 517-50.
- Surface Reaction Studies on Roughened Silver Using Enhanced Roman Scattering.** T. H. Wood and D. A. Zwemor, J Vacuum Sci and Tech, 18, No. 2 (March 1981), pp 649-50.
- Multiple-Image Dark-Field Electron Microscopy of Beam-Sensitive Materials.** A. J. Lovinger and H. D. Keith, J Poly Sci, Phys Ed, 19, No. 7 (July 1981), pp 1163-6.
- Photoelectrochemical Etching of p-GaAs.** F. W. Ostermayer, Jr. and P. A. Kohl, Appl Phys Lett, 39, No. 1 (July 1981), pp 76-8.