

# Papers by Bell Laboratories Authors

## CHEMISTRY

**Molecular Dissociation by Electron Impact: Optical Emission from Fragments of Methane, Ethylene and Methanol.** D. E. Donohue, J. A. Schiavone, and R. S. Freund, *J. Chem. Phys.*, 67 (July 1977), pp. 769-780.

**The Molecular Dynamics of Polysulfones in Solution as Observed by  $^{13}\text{C}$  NMR Relaxation Measurements.** R. E. Cais and F. A. Bovey, *Macromolecules*, 10, No. 4 (July-August 1977), pp. 757-762.

## ELECTRICAL AND ELECTRONIC ENGINEERING

**Forward Scattering Due to Rain at 11 GHz.** T. Li, W. C. Jakes, Jr., and J. A. Morrison, *IEEE Trans. Ant. Propag.*, AP-25 (September 1977), pp. 646-649.

**Vibration-Induced Modulation of Fiberguide Transmission.** D. F. Nelson, D. A. Kleinman, K. W. Wecht, *Opt. Fiber. Trans. II* (February 1977), pp. TuE7-1-TuE7-3.

## MATERIALS SCIENCE

**Etching Technique for Delineating Hard Gold Electroplate from Soft Gold Electroplate.** T. M. Paskowski, *Metallography*, 10, No. 3 (July 1977), pp. 355.

**Transmission Electron Microscopy at Interfaces in III-V Compound Semiconductors.** P. M. Petroff, *J. Vacuum Sci. Technol.*, 14 (July/August 1977), pp. 973-978.

**Beryllium Doping and Diffusion in Molecular Beam Epitaxy of GaAs and  $\text{Al}_x\text{Ga}_{1-x}\text{As}$ .** M. Ilegems, *J. Appl. Phys.*, 48 (March 1977), pp. 1278-1287.

**Electronic Structure of Tetragonal Tungsten Bronzes and Electrochromic Oxides.** G. K. Wertheim, M. Campagna, J. N. Chazalviel, D. N. E. Buchanan, and H. R. Shanks, *Appl. Phys.*, 13 (1977), pp. 225-230.

**Carbon-13 NMR Observations of the Microstructure and Molecular Dynamics of Poly(Phenyl Thiirane).** R. E. Cais and F. A. Bovey, *Macromolecules*, 10, No. 4 (July-August 1977), pp. 752-757.

**Impurity Effects in the Nucleation of Alpha (bcc)-Tantalum or Beta-Tantalum Films.** N. Schwartz and E. D. Feit, *J. Electrochem. Soc.*, 124 (January 1977) pp. 123-131.

## PHYSICS

**Many-Body Effects in X-ray Photoemission from the Nolte Metals.** Y. Yafet and G. K. Wertheim, *J. Phys. F: Metal. Phys.* 7, No. 2 (1977), pp. 357-366.

**Spin Polarization of Field-Emitted Electrons and Magnetism at the (100) Surface of Ni.** M. Landolt and M. Campagna, *Phys. Rev. Lett.*, 38 (March 1977), pp. 663-666.

**Lateral Current Confinement by Reverse Biased Junctions in GaAs- $\text{Al}_x\text{Ga}_{1-x}\text{As}$  DH Lasers.** W. T. Tsang and R. A. Logan, *Appl. Phys. Lett.*, 30 (May 1977), pp. 538-540.

## PSYCHOLOGY

**On Stress and Linguistic Rhythm.** M. Y. Liberman and A. Prince, *Linguist. Inq.*, 8, No. 2 (Spring 1977), pp. 249-336.