

Papers by Bell Laboratories Authors

CHEMISTRY

Band Model for the Electronic Structure of Expanded Liquid Mercury. L. F. Mattheiss and W. W. Warren, Jr., *Phys Rev*, 16 (July 1977), pp. 624-638.

ELECTRICAL AND ELECTRONIC ENGINEERING

Rain-Scatter Interference on an Earth-Space Path. T. S. Chu, *IEEE Trans. Ant. Propag.*, 25, No. 2 (March 1977), pp. 287-288.

MATERIALS SCIENCE

Glass Transition Temperatures on Regularly Alternating Acrylonitrile-Vinyl Acetate Copolymers. A. E. Tonelli, *Macromolecules*, 10 (1977), pp. 716-717.

Composition and Stress State of Thin Films Deposited by Ion Beam Sputtering. R. N. Castellano, M. R. Notis and G. W. Simmons *Vacuum*, 27, No. 3 (June 1977), pp. 109-117.

Concerning the Semimetallic Characters of TiS_2 and $TlSe_2$. J. A. Wilson, *Solid State Commun.*, 22 (1977), pp. 551-553.

Computer Model of Metallic Spin Glasses. L. R. Walker and R. E. Walstedt, *Phys. Rev. Lett.*, 38, No. 9 (February 1977), pp. 514-518.

Diffusion Kinetics of Au Through Pt Films About 2000 and 6000 Å Thick Studied With Auger Spectroscopy. C. C. Chang and G. Quintana, *Thin Solid Films*, 31 (1976), pp. 265-273.

Si Depth Profile and Contaminants in Si-doped Al Film. C. C. Chang, T. T. Sheng, D. V. Speeney, and D. B. Fraser, *J. Appl. Phys.*, 47 (May 1976), pp. 1790-1794.

PHYSICS

Dielectric Function Measurements on Ion-Implanted Metallic Systems. E. N. Kaufmann, D. E. Aspnes, J. W. Rodgers, and A. A. Studna, *J. Opt. Soc. Amer.*, 67 (August 1977), pp. 1099-1101.

A New Spectroscopic Technique for Imaging the Spatial Distribution of Non-radiative Defects in a Scanning Transmission Electron Microscope. P. M. Petroff and D. V. Lang, *Appl. Phys. Lett.*, 31 (July 1977), pp. 60-62.

