

# Recent Monographs of Bell System Technical Papers Not Published in This Journal\*

ANDERSON, O. L.

**Cooling Time of Strong Glass Fibers**, Monograph 2943.

ARCHER, R. J.

**Optical Measurement of Film Growth on Silicon and Germanium Surfaces**, Monograph 2962.

BACKENSTOSS, G.

**Conductivity Mobilities of Electrons and Holes in Heavily Doped Silicon**, Monograph 2944.

BAKER, A. N., and WEBBER, D. S.

**Hydrogen Vibration Spectra of Rochelle Salt**, Monograph 2963.

BEMSKI, G., see Bittmann, C. A.

BITTMANN, C. A. and BEMSKI, G.

**Lifetime in Pulled Silicon Crystals**, Monograph 2945.

BOZORTH, R. M.

**Magnetism**, Monograph 2942.

D'ASARO, L. A.

**Field Emission from Silicon**, Monograph 2946.

DISTLER, R. J. and STURZENBECKER, C.

**A Magnetic Amplifier Voltage-Current Overload Protection Circuit**, Monograph 2947.

EGAN, T. F., see Hermance, H. W.

---

\* Copies of these monographs may be obtained on request to the Publication Department, Bell Telephone Laboratories, Inc., 463 West Street, New York 14, N. Y. The numbers of the monographs should be given in all requests.

FELDMANN, W. L., see Pearson, G. L.

FRISCH, H. L.

**An Approach to Equilibrium**, Monograph 2948.

FULLER, C. S.

**Some Analogies Between Semiconductors and Electrolyte Solutions**, Monograph 2961.

FULLER, C. S. and LOGAN, R. A.

**Effect of Heat Treatment Upon Electrical Properties of Silicon Crystals**, Monograph 2949.

GILLES, M. A.

**Superexchange Interaction Energy for  $\text{Fe}^{3+}\text{-O}^{2-}\text{-Fe}^{3+}$  Linkages**, Monograph 2951.

GROSSMAN, A. J.

**Synthesis of Tchebycheff Parameter Symmetrical Filters**, Monograph 2964.

HERMANCE, H. W. and EGAN, T. F.

**Examination of Electrical Contacts by Plastic Replica Method**, Monograph 2952.

INGRAM, S. B.

**An Electrical Engineer's World—1957**, Monograph 2931.

JACCARINO, V., see Shulman, R. G.

LIEHR, A. D.

**Variation of Ethylene  $\pi$ -Electronic Energy Under Nuclear Displacements**, Monograph 2953.

LOCKWOOD, W. H., see Peters, H.

LOGAN, R. A. and PETERS, A. J.

**Effect of Oxygen on Etch-Pit Formation in Silicon**, Monograph 2954.

LOGAN, R. A., see Fuller, C. S.

LUNDRY, W. R.

**Negative Impedance Circuits—Some Basic Relations and Limitations**, Monograph 2955.

MC DAVITT, M. B.

**6000-mc/sec Radio Relay System for Broad-Band Long-Haul Service**, Monograph 2956.

PEARSON, G. L., READ, W. T., JR. and FELDMANN, W. L.

**Deformation and Fraction of Small Silicon Crystals**, Monograph 2933.

PETERS, A. J., see Logan, R. A.

PETERS, H. and LOCKWOOD, W. H.

**Bonding Polyethylene to Rubber, Brass and Brass-Plated Metals**, Monograph 2932.

PRINCE, E.

**Crystal and Magnetic Structure of Copper Chromite**, Monograph 2960.

READ, W. T., JR.

**Dislocation Theory of Plastic Bending**, Monograph 2934.

READ, W. T., JR., see Pearson, G. L.

RONGVED, L. and FRASIER, J. T.

**Displacement Discontinuity in the Elastic Half-Space**, Monograph 2957.

SHULMAN, R. G. and JACCARINO, V.

**Nuclear Magnetic Resonance in Paramagnetic  $M_nF_2$** , Monograph 2958.

STURZENBECKER, C., see Distler, R. J.

WEBBER, D. S., see Baker, A. N.

## Contributors to This Issue

THOMAS M. BURFORD, B.S. in E.E., 1952, Washington University; M.S., 1953, and Ph.D., 1955, University of Wisconsin; Bell Telephone Laboratories, 1955—. Mr. Burford has been engaged in military systems analysis and mathematical research with application to communications. Member I.R.E., Sigma Xi.

IRA JACOBS, B.S., 1950, College of the City of New York; M.S., 1952, and Ph.D., 1955, Purdue University; Bell Telephone Laboratories, 1955—. Mr. Jacobs has concentrated on general systems analysis of military systems, including work on waveguides, propagation in non-uniform and anisotropic media, airborne radar display, missile trajectory shaping. Member American Physical Society, I. R. E., Phi Beta Kappa, Sigma Xi, Sigma Pi Sigma.

PAUL KISLIUK, B.S., 1943, Queens College; M.A., 1947, and Ph.D., 1952, Columbia University; Brookhaven Laboratory, 1947-48; Bell Telephone Laboratories, 1952—. Mr. Kisiuk has been engaged in research in contact and surface physics. Member American Physical Society, Sigma Xi.

DANIEL LEENOV, B.S., 1943, George Washington University; S.M., 1948, and Ph.D., 1951, University of Chicago; University of Chicago, 1952-55; University of Florida, 1955-56; Bell Telephone Laboratories, 1956—. Mr. Leenov has been engaged in testing and theory of micro-wave diodes and diode amplifiers. He took part in the National Defense Research Committee rocket research project at George Washington University in 1943-45. Member American Physical Society, Sigma Xi, Gamma Alpha.

JACK M. MANLEY, B.S. in E.E., University of Missouri, 1930; Columbia University, 1934; Bell Telephone Laboratories, 1930—. For a number of years, Mr. Manley was concerned mainly with theoretical and experimental studies of nonlinear electric circuits. Beginning in 1945, he spent about ten years working on new multiplex methods for