

## Bell System Technical Papers Not Published in this Journal

ALLISON, H. W., see MOORE, G. E.

BANGERT, J. T.<sup>1</sup>

**The Transistor as a Network Element**, (Abstract), I.R.E. Trans. ED-1, No. 1, p. 7, Feb. 1954.

BECK, A. C.<sup>1</sup>

**Microwave Testing with Millimicrosecond Pulses**, I.R.E. Trans. MTT-2, No. 1, pp. 93-99, April, 1954.

BICKELHAUPT, C. O.<sup>2</sup>

**Long Lines Signal Communication in the Battle of the Bulge**, Telephony, 146, pp. 20-21, 38, May 29, 1954.

BIONDI, F. J.<sup>1</sup>

**Corrosion Proofing Electronic Apparatus Parts Exposed to Ozone** (Abstract), I.R.E. Trans. ED-1, No. 1, p. 65, Feb. 1954.

BOND, W. L.<sup>1</sup>

**Making Crystal Spheres**, Rev. Sci. Instr., 25, No. 4, p. 401, April, 1954.

BRACKETT, G. R.<sup>4</sup>

**The Private Branch Exchange**, Telephony, 146, pp. 17-18, 49, April 10, 1954.

---

<sup>1</sup> Bell Telephone Laboratories, Inc.

<sup>2</sup> American Telephone and Telegraph Company.

<sup>4</sup> Northwestern Bell Telephone Company.

CHAPIN, D. M.,<sup>1</sup> FULLER, C. S.,<sup>1</sup> AND PEARSON, G. L.<sup>1</sup>

**A New Silicon p-n Junction Photocell for Converting Solar Radiation into Electric Power**, *J. Appl. Phys.*, **25**, No. 5, pp. 676-677, May, 1954.

CLARK, M. A.<sup>1</sup>

**An Acoustic Lens as a Directional Microphone**, *I.R.E. Trans. AU-2*, No. 1, pp. 5-7, Jan.-Feb. 1954.

CORENZWIT, E., see MATTHAIS, B. T.

CORY, S. I.<sup>1</sup>

**A New Portable Telegraph Transmission Measuring Set**, *A.I.E.E. Commun. and Electronics*, No. 11, pp. 59-62, March, 1954.

COWAN, F. A.<sup>2</sup>

**Networks for Theater Television**, *J.S.M.P.T.E.*, **62**, pp. 306-313, April, 1954.

DEWALD, J. F.<sup>1</sup>

**Effects of Space Charge on the Rate of Formation of Anode Films**, Letter to the Editor, *Acta Metallurgica*, **2**, pp. 340-341, Mar., 1954.

DITZENBERGER, J. A., see FULLER, C. S.

FEINSTEIN, J.<sup>1</sup>

**Some Stochastic Problems in Wave Propagation—Part II**, *I.R.E. Trans. AP-2*, No. 2, p. 63, April, 1954.

FLETCHER, R. C.,<sup>1</sup> YAGER, W. A.,<sup>1</sup> PEARSON, G. L.,<sup>1</sup> HOLDEN, A. N.,<sup>1</sup> READ, W. T.,<sup>1</sup> AND MERRITT, F. R.<sup>1</sup>

**Spin Resonance of Donors in Silicon**, Letter to the Editor, *Physical Review*, **94**, No. 5, pp. 1392-1393, June 1, 1954.

<sup>1</sup> Bell Telephone Laboratories, Inc.

<sup>2</sup> American Telephone and Telegraph Company.

FULLER, C. S.,<sup>1</sup> STRUTHERS, J. D.,<sup>1</sup> DITZENBERGER, J. A.,<sup>1</sup> AND WOLFSTIRN, K. B.<sup>1</sup>

**Diffusivity and Solubility of Copper in Germanium**, *Phys. Rev.*, **93**, pp. 1182-1189, Mar. 15, 1954.

FULLER, C. S., see CHAPIN, D. M.

GEBALLE, T. H.,<sup>1</sup> AND HULL, G. W.<sup>1</sup>

**Seebeck Effect in Germanium**, *Phys. Rev.*, **94**, No. 5, pp. 1134-1140, June, 1, 1954.

GREEN, E. I.<sup>1</sup>

**The Decilog — A Unit for Logarithmic Measurements**, *Elec. Eng.*, **73**, No. 7, pp. 597-599, July, 1954.

GROSS, A. J., see TANENBAUM, M.

HEFFNER, H.<sup>1</sup>

**Analysis of the Backward Wave Traveling Wave Tube**, *I.R.E. Proc.*, **42**, No. 6, pp. 930-937, June, 1954.

HOHN, F. E.<sup>1</sup>

**The Conference on Training in Applied Mathematics**, *Am. Math. Monthly*, **61**, No. 4, pp. 242-245, April, 1954.

HOLDEN, A. N., see FLETCHER, R. C.

HULL, G. W., see GEBALLE, T. H.

JAFFE, HANS, see MASON, W. P.

LADD, F. E.<sup>1</sup>

**50 Mc TVI — Its Causes and Cures**, Part I, *QST*, **38**, No. 6, p. 21, June, 1954. Part II, *QST*, **38**, No. 7, p. 32, July, 1954.

MASON, W. P., see SHOCKLEY, W.

<sup>1</sup> Bell Telephone Laboratories, Inc.

MASON, W. P.,<sup>1</sup> and JAFFE, HANS<sup>5</sup>

**Methods for Measuring Piezoelectric, Elastic and Dielectric Coefficients of Crystals and Ceramics**, I.R.E. Proc., **42**, No. 6, pp. 921-930, June, 1954.

MATTHIAS, B. T.,<sup>1</sup> CORENZWIT, E.,<sup>1</sup> and MILLER, C. E.<sup>1</sup>

**Superconducting Compounds**, Letter to the Editor, Phys. Rev., **93**, p. 1415, Mar. 15, 1954.

MATTHIAS, B. T.<sup>1</sup> and CORENZWIT, E.<sup>1</sup>

**Superconducting Alloys**, Letter to the Editor, Phys. Rev., **94**, No. 4, p. 1069, May 15, 1954.

MAY, J. E., JR.<sup>1</sup>

**Characteristics of Ultrasonic Delay Lines Using Quartz and Barium Titanate**, J. Acoust. Soc. Am., **26**, No. 3, pp. 347-355, May, 1954.

MCKAY, K. G.<sup>1</sup>

**Avalanche Breakdown in Silicon**, Phys. Rev., **94**, No. 4, pp. 877-884, May 15, 1954.

MENDEL, J. T.,<sup>1</sup> QUATE, C. F.,<sup>1</sup> AND YOCUM, W. H.<sup>1</sup>

**Electron Beam Focusing With Periodic Permanent Magnetic Fields**, Proc. I.R.E., **42**, pp. 800-810, May, 1954.

MERRITT, F. R., see FLETCHER, R. C.

MILLER, C. E., see MATTHIAS, B. T.

MOORE, G. E.,<sup>1</sup> ALLISON, H. W.,<sup>1</sup> AND WOLFSTIRN, K. B.<sup>1</sup>

**Reduction of SrO by Methane**, J. Chem. Phys., **22**, No. 4, p. 726, April, 1954.

MORIN, F. J.<sup>1</sup>

**Electrical Properties of NiO**, Phys. Rev., **93**, pp. 1199-1204, Mar. 15, 1954.

<sup>1</sup> Bell Telephone Laboratories, Inc.

<sup>5</sup> Brush Laboratories Company.

MORIN, F. J.<sup>1</sup>

**Electrical Properties of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>**, *Phys. Rev.*, **93**, pp. 1195-1199, Mar. 15, 1954.

PEARSON, G. L., see CHAPIN, D. M.

PEARSON, G. L., see FLETCHER, R. C.

PFANN, W. G., see TANENBAUM, M.

PRINCE, M. B.<sup>1</sup>

**Drift Mobilities in Semiconductors: II—Silicon**, *Phys. Rev.*, **93**, pp. 1204-1206, Mar. 15, 1954.

QUATE, C. F., see MENDEL, J. T.

READ, W. T., see FLETCHER, R. C.

SHOCKEY, W.,<sup>1</sup> AND MASON, W. P.<sup>1</sup>

**Dissected Amplifiers Using Negative Resistance**, Letter to the Editor, *J. Appl. Phys.*, **25**, No. 5, p. 677, May, 1954.

SLEPIAN, DAVID<sup>1</sup>

**Estimation of Signal Parameters in the Presence of Noise**, *I.R.E. Trans. P.G.I.T.-3*, pp. 68-89, Mar. 1954.

STANSEL, F. R.<sup>1</sup>

**An Improved Method of Measuring the Current Amplification Factor of Junction Transistors**, *I.R.E. Trans. PG1-3*, pp. 41-49, April, 1954.

STRUTHERS, J. D., see FULLER, C. S.

TANENBAUM, M.,<sup>1</sup> GROSS, A. J.,<sup>1</sup> AND PFANN, W. G.<sup>1</sup>

**Purification of Antimony and Tin by a New Method of Zone Refining**, *J. Metals*, **6**, No. 6, pp. 762-763, June, 1954.

THOMAS, D. E.<sup>1</sup>

<sup>1</sup> Bell Telephone Laboratories, Inc.

**A Point Contact Transistor VHF FM Transmitter**, I.R.E. Trans. ED-1, No. 1, pp. 43-52, April, 1954.

TURNER, E. C.<sup>6</sup>

**Telephone Growth Forecasting**. Part I, Telephony, 146, No. 24, pp. 17-19, 48, June, 12, 1954. Part II, Telephony, 146, No. 25, pp. 23-25, June 19, 1954.

VANCE, R. L.<sup>1</sup> AND MAGGS, C.<sup>1</sup>

**Magnetron Heater Design to Avoid Undesirable Magnetic Effects**, (Abstract), I.R.E. Trans. ED-1, No. 1, p. 64, Feb. 1954.

VARNEY, R. N.<sup>1</sup>

**Liberation of Electrons by Positive-ion Impact on the Cathode of a Pulsed Townsend Discharge Tube**, Phys. Rev., 93, pp. 1156-1160, Mar. 15, 1954.

WALKER, L. R.<sup>1</sup>

**Stored Energy and Power Flow in Electron Beams**, Letter to the Editor, J. Appl. Phys., 25, No. 5, pp. 615-618, May, 1954.

WICK, R. J.<sup>1</sup>

**Solution of the Field Problem of the Germanium Gyrator**, J. Appl. Phys., 25, No. 6, pp. 741-750, June, 1954.

WINDELER, A. S.<sup>1</sup>

**Polyethylene-Insulated Telephone Cable**, A.I.E.E. Commun. and Electronics, No. 12, pp. 106-111, May, 1954.

WOLFSTIRN, K. B., see MOORE, G. E.

WOLFSTIRN, K. B., see FULLER, C. S.

YAGER, W. A., see FLETCHER, R. C.

YOCUM, W. H., see MENDEL, J. T.

<sup>1</sup> Bell Telephone Laboratories, Inc.

<sup>6</sup> New York Telephone Company.