

Bell System Technical Papers Not Published in this Journal

AIKENS, A. J.,¹ and C. S. THAELER.²

Noise and Crosstalk Control on N1 Carrier Systems, Elec. Eng., **72**, pp. 1075-1080, Dec., 1953.

ALLEY, R. E., JR.,¹ and F. J. SCHNETTLER.¹

Effect of Cross-Section Area and Compression Upon the Relaxation in Permeability for Toroidal Samples of Ferrites, Letter to the Editor, J. Appl. Phys., **24**, pp. 1524-1525, Dec., 1953.

ALLIS, W. P.,¹ and D. J. ROSE.¹

The Transition From Free to Ambipolar Diffusion, Phys. Rev., **93**, p. 84-93, Jan. 1, 1954.

ANDERSON, O. L.,¹ and D. A. STUART.⁴

Statistical Theories as Applied to the Glassy State, Ind. Eng. Chem., **46**, pp. 154-160, Jan., 1954.

ARNOLD, S. M., see S. E. KOONCE.

BARSTOW, J. M.,¹ and H. N. CHRISTOPHER.¹

The Measurement of Random Monochrome Video Interference. A.I.E.E., Commun. and Electronics, pp. 735-741, Jan., 1954.

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company.

⁴ Cornell University.

BASHKOW, T. R.¹

Stability Analysis of a Basic Transistor Switching Circuit, Proc. National Electronics Conference, **9**, p. 748, Feb. 15, 1954.

BLECHER, F. H.¹

Automatic Gain Control of Junction Transistor Amplifiers, Proc. National Electronics Conference, **9**, p. 731, Feb. 15, 1954.

BOGERT, B. P.¹

Erratum: On the Band Width of Vowel-Formants, [published in J. Acous. Soc. Am., **25**, p. 791, (1953)], J. Acous. Soc. Am., **25**, p. 1203, Nov., 1953. The statement in the abstract which reads "The mean values for bars 1, 2, and 3 were 130, 100, and 185 cps, respectively," should be corrected to read "The median values for bars 1, 2, and 3, were 130, 150, and 185 cps, respectively."

BROWN, W. L.,¹ R. C. FLETCHER,¹ and K. A. WRIGHT.⁵

Annealing of Bombardment Damage in Germanium — Experimental, Phys. Rev., **92**, pp. 591–596, Nov. 1, 1953.

BROWN, W. L., see R. C. FLETCHER.

BURTON, J. A.,¹ G. W. HULL,¹ F. J. MORIN,¹ and J. C. SEVERIENS.¹

Effect of Nickel and Copper Impurities on the Recombination of Holes and Electrons in Germanium, J. Phys. Chem., **57**, pp. 853–859, Nov., 1953.

BURTON, J. A.,¹ R. C. PRIM,¹ and W. P. SLICHTER.¹

Distribution of Solute in Crystals Grown from the Melt — Theoretical, J. Chem. Phys., **21**, pp. 1987–1991, Nov., 1953.

BURTON, J. A.,¹ E. D. KOLB,¹ W. P. SLICHTER,¹ and J. D. STRUTHERS.¹

Distribution of Solute in Crystals Grown from the Melt — Experimental, J. Chem. Phys., **21**, pp. 1991–1996, Nov., 1953.

CAMPBELL, M. E., see C. L. LUKE.

¹ Bell Telephone Laboratories, Inc.

⁵ Massachusetts Institute of Technology.

CASE, R. L.¹ and IDEN KERNEY.¹

Program Transmission Over Type-N Carrier Telephone, A.I.E.E., Commun. and Electronics, pp. 791-795, Jan., 1954.

CHRISTOPHER, H. N., see J. M. BARSTOW.

CLARK, M. A.¹

An Acoustic Lens as a Directional Microphone, J. Acous. Soc. Am., **25**, pp. 1152-1153, Nov., 1953.

CORENZWIT, E., see S. GELLER.

COY, J. A.¹

Heat Dissipation from Toll Transmission Equipment, A.I.E.E., Commun. and Electronics, pp. 762-768, Jan., 1954.

DUNN, H. K.¹

Remarks on a Paper Entitled "Multiple Helmholtz Resonators," Letter to the Editor, J. Acous. Soc. Am., **26**, p. 103, Jan., 1954.

FLETCHER, R. C.,¹ and W. L. BROWN.¹

Annealing of Bombardment Damage in a Diamond-Type Lattice — Theoretical, Phys. Rev., **92**, pp. 585-590, Nov. 1, 1954.

FLETCHER, R. C., see W. L. BROWN.

FRACASSI, R. D.,¹ and H. KAHL.¹

Type ON Carrier Telephone, A.I.E.E., Commun. and Electronics, pp. 713-721, Jan., 1954.

FULLER, C. S., see J. R. SEVERIENS.

GELLER, S.,¹ and E. CORENZWIT.¹

Hafnium Oxide, HfO_2 (Monoclinic), Anal. Chem., **25**, p. 1774, Nov., 1953.

¹ Bell Telephone Laboratories, Inc.

GIBBS, W. B.³

Investment Cast Artificial Larynx Eases Fabrication Difficulties, Precision Metal Molding, pp. 34, 35, 75, Dec., 1953.

GREEN, F. O.³

Cost Control—Bonus from Centralized Maintenance, Plant Engineering, pp. 88–91, Jan., 1954.

HAGSTRUM, H. D.¹

Instrumentation and Experimental Procedure for Studies of Electron Ejection by Ions and Ionization by Electron Impact, Rev. Sci. Instr., **24**, pp. 1122–1142, Dec., 1953.

HANSON, A. N.¹

Automatic Testing of Wired Relay Circuits, A.I.E.E., Commun. and Electronics, pp. 805–857, Jan., 1954.

HULL, G. W., see J. A. BURTON.

KAHL, H., see R. D. FRACASSI.

KERNEY, IDEN, see R. L. CASE.

KOCH, W. E.¹

Use of the Sound Spectrograph for Appraising the Relative Quality of Musical Instruments, Letter to the Editor, J. Acous. Soc. Am., **26**, p. 105, Jan., 1954.

KOLB, E. G., see J. A. BURTON.

KOONCE, S. E.¹ and S. M. ARNOLD.¹

Metal Whiskers, Letter to the Editor, J. Appl. Phys., **25**, pp. 134–135, Jan., 1954.

¹ Bell Telephone Laboratories, Inc.

³ Western Electric Company, Inc.

KRETZMER, E. R.¹

An Amplitude-Stabilized Transistor Oscillator, Proc. National Electronics Conference, p. 756, Feb. 15, 1954.

LEWIS, H. W.¹

Search for the Hall Effect in a Super-Conductor—Experiment, Phys. Rev., **92**, pp. 1149–1151, Dec., 1953.

LINVILLE, J. G.¹

A New RC Filter Employing Active Elements, Proc. National Electronics Conference, **9**, p. 342, Feb. 15, 1954.

LUKE, C. L.¹ and M. E. CAMPBELL¹

Determination of Impurities in Germanium and Silicon, Anal. Chem., **25**, pp. 1588–1593, Nov., 1953.

MAHONEY, J. J., see E. H. PERKINS.

MAY, J. E.¹

Characteristics of Ultrasonic Delay Lines Using Quartz and Barium Titanite Ceramic Transducer, Proc. National Electronics Conference, **9**, p. 264, Feb. 15, 1954.

MORIN, F. J.¹

Lattice Scattering Mobility in Germanium, Phys. Rev., **93**, pp. 62–63, Jan. 1, 1954.

MORIN, F. J., see J. A. BURTON.

MURPHY, E. J.¹

Surface Migration of Water Molecules in Ice, J. Chem. Phys., **21**, pp. 1831–1835, Oct., 1953.

PENNELL, E. S.¹

A Temperature Controlled Ultrasonic Solid Delay Line, Proc. National Electronics Conference, **9**, p. 255, Feb. 15, 1954.

¹ Bell Telephone Laboratories, Inc.

PERKINS, E. H.,¹ and J. J. MAHONEY.¹

Type-N Carrier Telephone Deviation Regulator, A.I.E.E., Commun. and Electronics, pp. 757-762, Jan., 1954.

PETERSON, G. E.,⁶ and GORDON RAISBECK.¹

The Measurement of Noise with the Sound Spectrograph, J. Acous. Soc. Am., **25**, p. 1157, Nov., 1953.

PRIM, R. C., see J. A. BURTON.

PRINCE, M. B.¹

Drift Mobilities in Semi-Conductors. I—Germanium, Phys. Rev., **92**, pp. 681-687, Nov. 1, 1953.

RAISBECK, GORDON, see G. E. PETERSON.

REA, W. W.³

Oscilloscope Reduces Cost of Jig Grinding Operations, Machinery, pp. 201-203, Dec., 1953.

REMEIKA, J. P.

Method for Growing Barium Titanate Single Crystals. J. Am. Chem. Soc., **76**, pp. 940-941, Feb. 5, 1954.

ROSE, D. J., see W. P. ALLIS.

SCHLAACK, N. F.¹

Development of the LD Radio System, Trans. I.R.E., Professional Group on Communication Systems, pp. 29-38, Jan., 1954.

SCHNETTLER, F. J., see R. E. ALLEY, JR.

SEVERIENS, J. C., see J. A. BURTON.

¹ Bell Telephone Laboratories, Inc.

³ Western Electric Company, Inc.

⁶ University of Michigan.

SEVERIENS, J. R.¹ and C. S. FULLER.¹

Mobility of Impurity Ions in Germanium and Silicon, Letter to the Editor, Phys. Rev., **92**, pp. 1322, Dec., 1953.

SHOCKLEY, W.¹

Transistor Physics, Am. Scientist, **42**, pp. 41-72, Jan., 1954.

SHOCKLEY, W.¹

Some Predicted Effects of Temperature Gradient on Diffusion in Crystals, Letter to the Editor, Phys. Rev., **93**, pp. 345-346, Jan. 15, 1954.

SLICHTER, E. D., see J. A. BURTON.

SNOREK, F.³

Cut Tool Costs with Precision Casting, Iron Age, pp. 136-139, Feb. 11, 1954.

STILES, K. P.²

Overseas Radio Telephone Services of A. T. and T. Co., Trans. I.R.E., Professional Group Communications Systems, pp. 39-44, Jan., 1954.

STRUTHERS, J. D., see J. A. BURTON, and C. D. THURMOND.

STUART, D. A., see O. L. ANDERSON.

THAEELER, C. S., see A. J. AIKENS.

THURMOND, C. D.¹

Equilibrium Thermochemistry of Solid and Liquid Alloys of Germanium and Silicon — The Solubility of Ge and Si in Elements of Group III, IV and V, J. Phys. Chem., **57**, pp. 827-830, Nov., 1953.

THURMOND, C. D.¹ and J. D. STRUTHERS.¹

Equilibrium Thermochemistry of Solid and Liquid Alloys of Ger-

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company.

³ Western Electric Company, Inc.

manium and of Silicon — The Retrograde Solid Solubilities of Sb in Ge, Cu in Ge, and Cu in Si, J. Phys. Chem., 57, pp. 831–834, Nov., 1953.

WALKER, L. R.¹

Dispersion Formula for Plasma Waves, Letter to the Editor, J. Appl. Phys., 25, pp. 131–132, Jan., 1954.

WOLFF, P. A.¹

Theory of Plasma Waves in Metals, Phys. Rev., 92, pp. 18–23, Oct. 1, 1953.

WRIGHT, K. A., see W. L. BROWN.

¹ Bell Telephone Laboratories, Inc.