

Bell System Technical Papers Not Published in This Journal

ANDERSON, O. L.¹

Effect of Pressure on Glass Structure, *J. Appl. Phys.*, **27**, pp. 943-949, Aug., 1956.

ANDERSON, P. W.¹

Ordering and Antiferromagnetism in Ferrites, *Phys. Rev.*, **102**, pp. 1008-1013, May 15, 1956.

ANDERSON, P. W., see Holden, A. N.

ARNOLD, S. M.,¹ and KOONCE, S. ELOISE¹

Filamentary Growths of Metals at Elevated Temperatures, *J. Appl. Phys.*, Letter to the Editor, **27**, p. 964, Aug., 1956.

BONNEVILLE, S., See Noyes, J. W.

BRIDGERS, H. E.¹

The Formation of P-N Junctions in Semiconductors by the Variation of Crystal Growth Parameters, *J. Appl. Phys.*, **27**, pp. 746-751, July, 1956.

BOZORTH, R. M.,¹ WILLIAMS, H. J.,¹ and WALSH, DOROTHY E.¹

Magnetic Properties of Some Orthoferrites and Cyanides at Low Temperatures, *Phys. Rev.*, **103**, pp. 572-578, August 1, 1956.

CHASE, F. H.¹

Power Regulation by Semiconductors, *Elec. Engg.*, **75**, pp. 818-822, Sept., 1956.

CHEN, W. H., see Lee, C. Y.

¹ Bell Telephone Laboratories, Inc.

CHYNOWETH, A. G.¹

Spontaneous Polarization of Guanidine Aluminum Sulfate Hexahydrate at Low Temperatures, *Phys. Rev.*, **102**, pp. 1021-1023, May 15, 1956.

COOK, R. K.¹ and WASILIK, J. H.¹

Anelasticity and Dielectric Loss of Quartz, *J. Appl. Phys.*, **27**, pp. 836-837, July, 1956.

DARROW, K. K.¹

Electron Physics in America, *Physics Today*, **9**, pp. 23-27, Aug., 1956

DAVID, E. E., JR.¹

Naturalness and Distortion in Speech Processing Devices, *J. Acous. Soc. Am.*, **28**, pp. 586-589, July, 1956.

DAVID, E. E., JR.,¹ and McDONALD, H. S.¹

A Bit-Squeezing Technique Applied to Speech Signals, *I.R.E. Convention Record*, **4**, Part 4, pp. 148-153, July, 1956.

DEWALD, J. F.¹ and LÉPOUTRE, G.¹

I—The Thermoelectric Properties of Metal-Ammonia. II—The Thermoelectric Power of Sodium and Potassium Solutions at -78° and the Effect of Added Salt on the Thermoelectric Power of Sodium at -33° . III—Theory and Interpretation of Results, *J. Am. Chem. Soc.*, **78**, pp. 2953-2962, July 5, 1956.

EDER, M. J., see Veloric, H. S.

EMBREE, M. L.,¹ and WILLIAMS, D. E.¹

An Automatic Card Punching Transistor Test Set, *Proc. 1956 Electronic Components Symposium*, pp. 125-130, 1956.

FARRAR, H. K., see Maxwell, J. L.

FEHER, G.¹

Method of Polarizing Nuclei in Paramagnetic Substances, *Phys. Rev.*, Letter to the Editor, **103**, pp. 500-501, July 15, 1956.

¹ Bell Telephone Laboratories, Inc.

FEHER, G.,¹ and GERE, E.¹

Polarization of Phosphorus Nuclei in Silicon, Phys. Rev., Letter to the Editor, 103, pp. 501-503, July 15, 1956.

FREYNIK, H. S., see Gohn, G. R.

FTHENAKIS, E.¹

A Voltage Regulator Using High Speed of Response Magnetic Amplifiers With Transistor Driver, Proc. Special Tech. Conf. on Magnetic Amplifiers, T-86, pp. 185-199, July, 1955.

GAUDET, G., see Noyes, J. W.

GELLER, S.,¹ and WOOD, Mrs. E. A.,¹

Crystallographic Studies of Perovskite-Like Compounds. I — Rare Earth Orthoferrites and $YFeO_3$, $YCrO_3$, $YAlO_3$, Acta Crys., 9, pp. 563-568, July 10, 1956.

GERE, E., see Feher, G.

GIANOLA, U. F.,¹ and JAMES, D. B.¹

Ferromagnetic Coupling Between Crossed Coils, J. Appl. Phys., 27, pp. 608-609, June, 1956.

GILBERT, E. N.¹

Enumeration of Labelled Graphs, Canadian J. of Math., 8, pp. 405-411, 1956.

GOHN, G. R.¹

Fatigue and Its Relation to the Mechanical and Metallurgical Properties of Metals, SAE Trans., 64, pp. 31-40, 1956.

GOHN, G. R.,¹ FREYNIK, H. S.,⁸ and GUERARD, J. P.¹

The Mechanical Properties of Wrought Phosphor Bronze Alloys, A.S.T.M. Special Tech. Pub., STP 183, pp. 1-114, Jan., 1956.

GUERARD, J. P., see Gohn, G. R.

HANNAY, N. B.¹

Recent Advances in Silicon — Progress in Semiconductors, Book, 1, pp. 1-35, 1956. (Published by Heywood & Co., Ltd., London)

¹ Bell Telephone Laboratories, Inc.

⁸ Riverside Metal Co., Div., H. K. Porter Co., Inc., Riverside, N. J.

HOLDEN, A. N.,¹ MATTHIAS, B. T.,¹ ANDERSON, P. W.,¹ and LEWIS, H. W.¹

New Low-Temperature Ferromagnets, *Phys. Rev.*, **102**, p. 1463, June 15, 1956.

HUNTLEY, H. R.²

The Present and Future of Telephone Transmission, *Elec. Engg.*, **75**, pp. 686-692, Aug., 1956.

JAMES, D. B., see Gianola, U. F.

JONES, H. L.⁹

A Blend of Operations Research and Quality Control in Balancing Loads on Telephone Equipment, *Trans. Am. Soc. Quality Control* (1956 Montreal Convention).

KAMINOW, I. P., see Kircher, R. J.

KIRCHER, R. J.¹ and KAMINOW, I. P.¹

Super-Regenerative Transistor Oscillator, *Electronics*, **29**, pp. 166-167, July, 1956.

KRETZMER, E. R.¹

Reduced-Alphabet Representation of TV Signals, *I.R.E. Convention Record*, **4**, Part 4, pp. 140-147, 1956.

KOONCE, S. ELOISE, see Arnold, S. M.

LEE, C. Y.,¹ and CHEN, W. H.⁴

Several-Valued Combinational Switching Circuits, *Commun. and Electronics*, **25**, pp. 278-283, July, 1956.

LEPOUTRE, G., see Dewald, J. F.

LEWIS, H. W.¹

Two-Fluid Model of an "Energy-Gap" Superconductor, *Phys. Rev.*, **102**, pp. 1508-1511, June 15, 1956.

LEWIS, P. W., see Holden, A. N.

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company.

⁴ University of Florida, Gainesville, Fla.

⁹ Illinois Bell Telephone Company, Chicago, Ill.

MANLEY, J. M.,¹ and ROWE, H. E.¹

Some General Properties of Non-Linear Elements. Part 1 — General Energy Relations, Proc. I.R.E., **44**, pp. 904-913, July, 1956.

MATTHIAS, B. T., see Holden, A. N.; Wood, E. A.

MAXWELL, J. L.,⁶ and FARRAR, H. K.⁶

Automatic Dispatch System for Teletypewriter Lines, Elec. Engg., **75**, p. 705, Aug., 1956.

MCDONALD, H. S., see David E. E.

MCCLEAN, D. A.¹ and POWER, F. S.¹

Tantalum Solid Electrolytic Capacitors, Proc. I.R.E., **44**, pp. 872-878, July, 1956.

MCMAHON, W.¹

Dielectric Effects Produced by Solidifying Certain Organic Compounds in Electric or Magnetic Fields, J. Am. Chem. Soc., **78**, pp. 3290-3294, July 20, 1956.

MERZ, W. J.¹

Effect of Hydrostatic Pressure on the Hysteresis Loop of Guanidine Aluminum Sulfate Hexahydrate, Phys. Rev., **103**, pp. 565-566, Aug. 1, 1956.

MERZ, W. J.¹

Switching Time in Ferroelectric BaTiO₃ and Its Dependence on Crystal Thickness, J. Appl. Phys., **27**, pp. 938-943, Aug. 1, 1956.

NELSON, L. S.¹

Windowed Dewar Vessels for Use at Low Temperatures, Rev. Sci. Instr., **27**, pp. 655-656, Aug., 1956.

NOYES, J. W.,⁵ GAUDET, G.,⁵ and BONNEVILLE, S.⁵

Development of Transcontinental Communications in Canada, Commun. and Electronics, **25**, pp. 342-352, July, 1956.

¹ Bell Telephone Laboratories, Inc.

⁵ Bell Telephone Company of Canada, Ltd., Montreal, Que., Canada.

⁶ Pacific Telephone and Telegraph Co., San Francisco, Calif.

PILLIOD, J. J.²

Clinton R. Hanna 1955 Lamme Medalist — History of the Metal, Elec. Engg., **75**, p. 706, Aug., 1956.

POWER, F. S., see McLean, D. A.

PRINCE, M. B., see Veloric, H. S.

RINEY, T. D.¹

On the Coefficients in Asymptotic Factorial Expansions, Proc. of Am. Math. Soc., **7**, pp. 245-249, Apr., 1956.

ROWE, H. E., see Manley, J. M.

SHULMAN, R. G.¹

Hole Trapping in Germanium Bombarded by High-Energy Electrons, Phys. Rev., **102**, pp. 1451-1455, June 15, 1956.

SHULMAN, R. G.,¹ and WYLUDA, B. J.¹

Copper in Germanium; Recombination Center and Trapping Center, Phys. Rev., **102**, pp. 1455-1457, June 15, 1956.

SLICHTER, W. P.¹

On the Morphology of Highly Crystalline Polyethylenes, J. Poly. Sci., **21**, pp. 141-143, July, 1956.

TIEN, P. K.¹

A Dip in the Minimum Noise Figure of Beam-Type Microwave Amplifiers, Proc. I.R.E., Correspondence Sec., **44**, p. 938, July, 1956.

VELORIC, H. S.,¹ EDER, M. J.,¹ and PRINCE, M. B.¹

Avalanche Breakdown in Silicon Diffused P-N Junctions as a Function of Impurity Gradient, J. Appl. Phys., **27**, pp. 895-899, August, 1956.

WALSH, DOROTHY E., see Bozorth, R. M.

WASILIK, J. H., see Cook, R. K.

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company.

WERNICK, J. H.¹

Determination of Diffusivities in Liquid Metals by Means of Temperature-Gradient Zone-Melting, *J. Chem. Phys.*, **25**, pp. 47-49, July, 1956.

WILKINSON, R. I.¹

Beginnings of Switching Theory in the United States, *Elec. Engg.*, **75**, pp. 796-802, Sept., 1956.

WILLIAMS, D. E., see Embree, M. L.

WILLIAMS, H. J., see Bozorth, R. M.

WOOD, MRS. E. A.¹

Guanidinium Aluminum Sulfate Hexahydrate; Crystallographic Data, *Acta Crys.*, **9**, pp. 618-619, July 10, 1956.

WOOD, MRS. E. A.¹

The Question of a Phase Transition in Silicon, *J. Phys. Chem.*, **60**, p. 508, 1956.

WOOD, MRS. E. A.,¹ and MATTHIAS, B. T.¹

Crystal Structures of Nb₃Au and V₃Au, *Acta Crys.*, **9**, pp. 534, June 10, 1956.

WOOD, E. A., see Geller, S.

WYLUDA, B. J., see Shulman, R. G.

¹ Bell Telephone Laboratories Inc.