

Bell System Technical Papers Not Published in this Journal

ANDERSON, O. L., see Andreatch, P.

ANDREATCH, P., and ANDERSON, O. L.¹

Teflon as a Pressure Medium, Rev. Sci. Instr., **28**, p. 288, April, 1957.

BOYET, H.,¹ and SEIDEL, H.¹

Analysis of Nonreciprocal Effects in an N-Wire Ferrite-Loaded Transmission Line, Proc. I.R.E., **45**, pp. 491-495, April, 1957.

BOYET, H., see Seidel, H.

BOZORTH, R. M.¹

Review of Magnetic Annealing, Proc. of 1956 A.I.E.E. Conf. on Magnetism and Magnetic Materials, **T-91**, pp. 69-75, April, 1957.

BURNS, F. P.¹

Piezoresistive Semiconductor Microphone, J. Acous. Soc. Am., **29**, pp. 248-253, Feb., 1957.

CARRUTHERS, J. A., see Geballe, T. H.

CIOFFI, P. P.¹

Rectilinearity of Electron-Beam Focusing Fields from Transverse Component Determinations, Commun. and Electronics, **29**, pp. 15-19, March, 1957.

COOK, R. K.¹

Absorption of Sound by Patches of Absorbent Material, J. Acous. Soc. Am., **29**, pp. 324-329, March, 1957.

¹ Bell Telephone Laboratories, Inc.

COOK, R. K.¹

Variation of Elastic Constants and Static Strains with Hydrostatic Pressure: A Method for Calculation from Ultrasonic Measurements, *J. Acous. Soc. Am.*, **29**, pp. 445-449, April, 1957.

DEWALD, J. F.¹

The Kinetics of Formation of Anode Films on Single Crystal Indium Antimonide, *J. Electrochem. Soc.*, **104**, pp. 244-251, April, 1957.

DOWLING, R. C.⁴

Lightning Protection on the Stevens Point-Wisconsin Rapids Intercity Telephone Cable, *Commun. and Electronics*, **28**, pp. 697-701, Jan., 1957.

FEHER, G.¹

Electron Structure of F Centers in KCl by the Electron Spin Double-Resistance Technique, *Phys. Rev.*, Letter to the Editor, **105**, pp. 1122-1123, Feb. 1, 1957.

FOSTER, F. G.¹

The Unconventional Application of the Metallograph, *Focus*, **18**, pp. 16-20, April, 1957.

GARN, P. D.¹

An Automatic Recording Balance, *Anal. Chem.*, **29**, pp. 839-841, May, 1957.

GAST, R. W.⁵

Field Experience with the A2A Video System, *Commun. and Electronics*, **28**, pp. 710-716, Jan., 1957.

GEBALLE, T. H.,¹ CARRUTHERS, J. A.,⁶ ROSENBERG, H. M.,⁶ and ZIMAN, J. M.⁷

The Thermal Conductivity of Germanium and Silicon Between 2 and 300°K, *Proc. Royal Soc.*, **A238**, pp. 502-514, Jan. 29, 1957.

¹ Bell Telephone Laboratories, Inc.

⁴ Wisconsin Telephone Company, Madison.

⁵ New York Telephone Company, New York.

⁶ Oxford University, England.

⁷ Cambridge University, England.

GELLER, S.¹

Crystallographic Studies of Perovskite-Like Compounds.—IV. Rare Earth Scandates, Vanadites, Galliates, Orthochromites, Acta Crys., 10, pp. 243–248, April 10, 1957.

GELLER, S.¹

Crystallographic Studies of Perovskite-Like Compounds.—V. Relative Ionic Sizes, Acta Crys., 10, pp. 248–251, April 10, 1957.

GELLER, S.,¹ and GILLES, M. A.¹

Structure and Ferrimagnetism of Ythium and Rare-Earth-Iron Garnets, Acta Crys., 10, p. 239, March 10, 1957.

GILLES, M. A.¹

Crystallographic Studies of Perovskite-Like Compounds.—III. $\text{La}(\text{M}_x, \text{Mn}_{1-x})\text{O}$ with $\text{M} = \text{Co}, \text{Fe}$ and Cr , Acta Crys., 10, pp. 161–166, March, 1957.

GILLES, M. A., see Geller, S.

GREEN, E. I.¹

Nature's Pulses, I.R.E. Student Quarterly, 3, pp. 3–5, Feb., 1957.

GROSSMAN, A. J.¹

Synthesis of Tschebycheff Parameter Symmetrical Filters, Proc. I.R.E., 45, pp. 454–473, April, 1957.

HAGSTRUM, H. D.¹

Thermionic Constants and Sorption Properties of Hafnium, J. Appl. Phys., 28, pp. 323–328, March, 1957.

HAWORTH, F. E.¹

Breakdown Fields of Activated Electrical Contacts, J. Appl. Phys., Letter to the Editor, 28, p. 381, March, 1957.

HEIDENREICH, R. D.,¹ and NESBITT, E. A.¹

Stacking Disorders in Nickel Base Magnetic Alloys, Phys. Rev., Letter to the Editor, 105, pp. 1678–1679, March 1, 1957.

¹ Bell Telephone Laboratories, Inc.

HOLDEN, A. N., see Wood, Elizabeth A.

HUNTLEY, H. R.²

Where We Are and Where We Are Going in Telephone Transmission, *Commun. and Electronics*, **29**, pp. 54-63, March, 1957.

JOEL, A. E.¹

Electronics in Telephone Switching Systems, *Commun. and Electronic*, **28**, pp. 701-709, Jan., 1957.

KAPPEL, F. R.²

Three-Dimensional Engineers, *Elec. Engg.*, **76**, pp. 267-270, April 1957.

KARLIN, J. E., see Pierce, J. R.

KARP, A.¹

Backward-Wave Oscillator Experiments at 100 to 200 Kilomegacycles, *Proc. I.R.E.*, **45**, pp. 496-503, April, 1957.

KELLY, M. J.¹

The Work and Environment of the Physicist Yesterday, Today, and Tomorrow, *Phys. Today*, **10**, pp. 26-31, April, 1957.

LAW, J. T.,¹ and MEIGS, P. S.¹

Rates of Oxidation of Germanium, *J. Electrochem. Soc.*, **104**, pp. 154-159, March, 1957.

LAW, J. T.,¹ and MEIGS, P. S.¹

The High Temperature Oxidation of Germanium, Semiconductor Surface Physics (book), pp. 383-400, 1957, Univ. of Penna. Press, Philadelphia.

LIEHR, A. D.¹

Structure of $\text{Co}(\text{CO})_4\text{H}$ and $\text{Fe}(\text{CO})_4\text{H}_2$, *Zeitschrift Für Naturforschung*, **12b**, pp. 95-96, Feb., 1957.

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company.

LIEHR, A. D.¹

Structure of π -Cyclopentadienyl Metal Hydrides, *Naturwissenschaften*, **44**, p. 61, Feb. 1, 1957.

LUNDBERG, C. V., see Vacca, G. N.

LUNDBERG, J. L.,¹ and NELSON, L. S.¹

The High Intensity Flash Irradiation of Polymers, *Nature*, Letter to the Editor, **179**, pp. 367-368, Feb. 16, 1957.

MARRISON, W. A.¹

A Wind-Operated Electric Power Supply, *Elec. Engg.*, **76**, pp. 418-421, May, 1957.

MCCALL, D. W.¹

Nuclear Magnetic Resonance in Guanidinium Aluminum Sulfate Hexahydrate, *J. Chem. Phys.*, Letter to the Editor, **26**, pp. 706-707 March, 1957.

MEIGS, P. S., see Law, J. T.

MENDIZZA, A.,¹ SAMPLE, C. H.,⁸ and TEEL, R. B.⁹

A Comparison of the Corrosion Behavior and Protective Value of Electrodeposited Zinc and Cadmium on Steel, *Symposium on Properties, Tests, and Performances of Electrodeposited Metallic Coatings*, **A.S.T.M. Special Tech. Publication 197**, pp. 49-64, 1957.

MILLER, S. L.¹

The Ionization Rates for Holes and Electrons in Si, *Phys. Rev.*, **105**, pp. 1246-1249, Feb. 15, 1957.

NELSON, L. S., see Lundberg, J. L.

NESBITT, E. A., see Heidenreich, R. D.

¹ Bell Telephone Laboratories, Inc.

⁸ International Nickel Company, New York City.

⁹ International Nickel Company, Wrightsville Beach, North Carolina.

PALMQUIST, T. F.¹⁰

Multi-Unit Neutralizing Transformers, Commun. and Electronics, **28**, pp. 717-721, Jan., 1957.

PIERCE, J. R.,¹ and KARLIN, J. E.¹

Information Rate of a Human Channel, Proc. I.R.E., Letter to the Editor, **45**, p. 368, March, 1957.

REA, W. T.¹

The Communication Engineer's Needs in Information Theory, Commun. and Electronics, **28**, pp. 805-808, Jan., 1957.

ROSENBERG, H. M., see GEBALLE, T. H.

SAMPLE, C. H., see MENDIZZA, A.

SEIDEL, H.,¹ and BOYET, H.¹

Form of Polder Tensor for Single Crystal Ferrite with Small Cubic Symmetry Anisotropy Energy, J. Appl. Phys., **28**, pp. 452-454, April, 1957.

SEIDEL, H., see Boyet, H.

SLICHTER, W. P.¹

Nuclear Magnetic Resonance in Some Fluorine Derivatives of Polyethylene, J. Poly. Sci., **24**, pp. 173-188, April, 1957.

SMITH, K. D., see Veloric, H. S.

SUHL, H.¹

Proposal for a Ferromagnetic Amplifier in the Microwave Range, Phys. Rev., Letter to the Editor, **106**, pp. 384-385, April 15, 1957.

SWANEKAMP, F. W., see Van Uitert, L. G.

TEEL, R. B., see Mendizza, A.

¹ Bell Telephone Laboratories, Inc.

¹⁰ Bell Telephone Company of Canada, Montreal, Quebec.

TREUTING, R. G.¹

Torsional Strain and the Screw Dislocation in Whisker Crystals, *Acta Met.*, Letter to the Editor, **5**, pp. 173-175, March, 1957.

VACCA, G. N.,¹ and LUNDBERG, C. V.¹

Aging of Neoprene in a Weatherometer, *Wire and Wire Products*, **32**, pp. 418-457, April, 1957.

VAN UITERT, L. G.¹

Magnesium-Copper — Manganese-Aluminum Ferrites for Microwave Applications, *J. App. Phys.*, **28**, pp. 320-322, March, 1957.

VAN UITERT, L. G.¹

Magnetic Induction and Coercive Force Data on Members of the Series $BaAl_xFe_{12-x}O_{19}$ and Related Oxides, *J. Appl. Phys.*, **28**, pp. 317-319, March, 1957.

VAN UITERT, L. G.,¹ and SWANEKAMP, F. W.¹

Permanent Magnet Oxides Containing Divalent Metal Ions, *J. Appl. Phys.*, **28**, pp. 482-485, April, 1957.

VELORIC, H. S.,¹ and SMITH, K. D.¹

Silicon Diffused Junction Avalanche Diodes, *J. Electrochem. Soc.*, **104**, pp. 222-227, April, 1957.

WALKER, L. R.¹

Orthogonality Relays for Gyrotropic Wave Guides, *J. Appl. Phys.*, Letter to the Editor, **28**, p. 377, March, 1957.

WEBER, L. A.¹

Influence of Noise on Telephone Signaling Circuit Performance, *Commun. and Electronics*, **28**, pp. 636-643, Jan., 1957.

WEIBEL, E. S.¹

An Electronic Analogue Multiplier, *Trans. I.R.E., PGEC, EC-6*, pp. 30-34, March, 1957.

¹ Bell Telephone Laboratories, Inc.

WEISS, J. A.¹

An Interference Effect Associated with Faraday Rotation, and Its Application to Microwave Switching, Proc. Conf. on Magnetism and Magnetic Materials, pp. 580-585, Feb., 1957.

WERTHEIM, G. K.¹

Energy Levels in Electron-Bombarded Silicon, Phys. Rev., **105**, pp. 1730-1735, March 15, 1957.

WILLIS, F. H.¹

Some Results with Frequency Diversity in a Microwave Radio System, Commun. and Electronics, **29**, pp. 63-67, March, 1957.

WOOD, ELIZABETH A.,¹ and HOLDEN, A. N.¹

Monoclinic Glycine Sulfate: Crystallographic Data, Acta Crys., **10**, pp. 145-146, Feb., 1957.

YOUNKER, E. L.¹

A Transistor Driven Magnetic Core Memory, Trans. I.R.E., PGEC, EC-6, pp. 14-20, March, 1957.

ZIMAN, J. M., see Geballe, T. H.

¹ Bell Telephone Laboratories, Inc.