

Bell System Technical Papers Not Published in This Journal

BALDWIN, M. W., JR.,¹ and NIELSEN, G., JR.¹

Subjective Sharpness of Simulated Color Television Pictures, J. Am. Optical Soc., **46**, pp. 681-685, Sept. 1956.

BARBIERI, F.,¹ and DURAND, J.¹

Method for Cutting Cylindrical Crystals, Rev. Sci. Instr., Shop Note, **27**, pp. 871-872, Oct., 1956.

BEMSKI, G.¹

Quenched-In Recombination Centers in Silicon, Phys. Rev., **103**, pp. 567-569, Aug. 1, 1956.

BOMMEL, H. E., see Mason, W. P.

BRADY, G. W., see Mays, J. M.

BROWN, W. L., see Montgomery, H. C.

CUTLER, C. C.¹

Instability in Hollow and Strip Beams, J. Appl. Phys., Letter to the Editor, **27**, pp. 1028-1029, Sept., 1956.

DACEY, G. C., see Thomas, D. E.

DAIL, H. W., JR., see Galt, J. K.

DEHN, J. W.,¹ and HERSEY, R. E.¹

Recent New Features for the No. 5 Crossbar Switching System, Commun. and Electronics, **26**, pp. 457-466, Sept., 1956.

DURAND, J., see Barbieri, F.

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

¹ Bell Telephone Laboratories, Inc.

FAY, C. E.¹

Ferrite-Tuned Resonant Cavities, Proc. I.R.E., **44**, pp. 1446-1449, Oct., 1956.

FEHER, G.¹

Observation of Nuclear Magnetic Resonances Via the Electron Spin Resonance Line, Phys. Rev., Letter to the Editor, **103**, pp. 834-835, Aug. 1, 1956.

FERRELL, E. B.¹

A Terminal For Data Transmission Over Telephone Circuits, Proc. Western Joint Computer Conf., pp. 31-33, Feb. 7-9, 1956.

GALT, J. K.,¹ YAGER, W. A.,¹ and DAIL, H. W., JR.¹

Cyclotron Resonance Effects in Graphite, Phys. Rev., Letter to the Editor, **103**, pp. 1586-1587, Sept. 1, 1956.

GARRETT, C. G. B.¹

The Physics of Semiconductor Surfaces, Nature, **178**, p. 396, Aug. 25, 1956.

GOLDEY, J. M., see Moll, J. L.

GOLDSTEIN, H. L.,¹ and Lowell, R. J.¹

Magnetic Amplifier Controlled Regulated Rectifiers, Proc. Special Tech. Conf. on Magnetic Amplifiers, pp. 145-147, July, 1956.

GULDNER, W. G.¹

Application of Vacuum Techniques to Analytical Chemistry, Vacuum Symp. Trans., pp. 1-6, 1955.

HARROWER, G. A.¹

Energy Spectra of Secondary Electrons from Mo and W for Low Primary Energies, Phys. Rev., **104**, pp. 52-56, Oct., 1956.

HERSEY, R. E., see Dehn, J. W.

HITTINGER, W. C., see Warner, R. M., Jr.

HOLONYAK, N., see Moll, J. L.

¹ Bell Telephone Laboratories, Inc.

HOSFORD, J. A.³

The Development of Automatic Manufacturing Facilities for Reed Switches, *Commun. and Electronics*, **26**, pp. 496-500, Sept., 1956.

HOVGAAARD, O. M.¹

Capability of Sealed Contact Relays, *Commun. and Electronics*, **26**, pp. 466-468, Sept., 1956.

IRELAND, G.⁵

Management Development in the Communications Field, *Elec. Engg.*, **75**, pp. 881-884, Oct. 1956

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

JAYCOX, E. K.,¹ and PRESCOTT, B. E.¹

Spectrochemical Analysis of Thermionic Cathode Nickel Alloys by Graphite-to-Metal Arcing Technique, *Anal. Chem.*, **28**, pp. 1544-1547, Oct., 1956.

JONES, H. L.⁶

A Blend of Operations Research and Quality Control in Balancing Loads on Telephone Equipment, *Proc. Am. Soc. for Quality Control*, June, 1956.

KISLIUK, P.¹

The Dipole Moment of NF_3 , *J. Chem. Phys.*, Letter to the Editor, **25**, p. 779, Oct., 1956.

KNAPP, H. M.¹

Design Features of Bell System Wire Spring Relays, *Commun. and Electronics*, **26**, pp. 482-486, Sept., 1956.

KUCK, R. G.⁵

Microwave Facilities with Built-In Reliability, *Commun. and Electronics*, **26**, pp. 438-441, Sept., 1956.

KUNZLER, J. E.¹

Liquid Nitrogen Vacuum Trap Containing a Constant Cold Zone, *Rev. Sci. Instr.*, Shop Note, **27**, p. 879, Oct., 1956.

¹ Bell Telephone Laboratories, Inc.

³ Western Electric Company.

⁵ Pacific Telephone and Telegraph Company, San Francisco, Calif.

⁶ Illinois Bell Telephone Company, Chicago, Ill.

LEWIS, H. W.¹

Ballistocardiographic Instrumentation, Rev. Sci. Instr., **27**, pp. 835-837, Oct., 1956.

LOWELL, R. J., see Goldstein, H. L.

LUKE, C. L.¹

Determination of Traces of Gallium and Indium in Germanium and Germanium Dioxide, Anal. Chem., **28**, pp. 1340-1342, Aug., 1956.

LUKE, C. L.¹

Rapid Photometric Determination of Magnetism in Electronic Nickel, Anal. Chem., **28**, pp. 1443-1445, Sept., 1956.

MASON, W. P.,¹ and BOMMEL, H. E.¹

Ultrasonic Attenuation at Low Temperatures for Metals in the Normal and Superconducting States, J. Acous. Soc. Am., **28**, pp. 930-944, Sept., 1956.

MAXWELL, J. L.⁵ and FARRAR, H. K.⁵

Automatic Dispatch System for Half-Duplex Teletypewriter Lines, Commun. and Electronics, **26**, pp. 441-445, Sept., 1956.

MAYS, J. M.,¹ and BRADY, G. W.¹

Nuclear Magnetic Resonance Absorption by H₂O on TiO₂, J. Chem. Phys., **25**, p. 583, Sept., 1956.

MCLEAN, D. A.¹

Tantalum Capacitors Use Solid Electrolyte, Electronics, **29**, pp. 176-177, Oct., 1956.

MESZAR, J.¹

The Full Stature of the Crossbar Tandem Switching System, Commun. and Electronics, **26**, pp. 486-496, Sept., 1956.

MOLL, J. L.,¹ TANENBAUM, M.,¹ GOLDEY, J. M.,¹ and HOLONYAK, N.¹

P-N-P-N Transistor Switches, Proc. I.R.E., **44**, pp. 1174-1182, Sept., 1956.

¹ Bell Telephone Laboratories, Inc.

⁵ Pacific Telephone and Telegraph Company, San Francisco, Calif.

MONTGOMERY, H. C.,¹ and BROWN, W. L.¹

Field-Induced Conductivity Changes in Germanium, Phys. Rev., **103**, pp. 865-870, Aug. 15, 1956.

MOORE, E. F.¹

Artificial Living Plants, Sci. Am., **195**, pp. 118-126, Oct., 1956.

MOORE, E. F.,¹ and SHANNON, C. E.¹

Reliable Circuits Using Less Reliable Relays, J. Franklin Institute, **262**, pp. 191-208, Sept., 1956, pp. 281-298, Oct., 1956.

MOSHMAN, J., see Tien, P. K.

NELSON, L. S.¹

Sapphire Lamp for Short Wavelength Photochemistry, J. Am. Optical Soc., **46**, pp. 768-769, Sept., 1956.

NELSON, L. S.,¹ and RAMSAY, D. A.⁸

Absorption Spectra of Free Radicals Produced by Flash Discharges, J. Chem. Phys., Letter to the Editor, **25**, pp. 372-373, Aug., 1956.

NELSON, L. S.,¹ and RAMSAY, D. A.⁸

Flash Photolysis Experiments with a Sapphire Flash Lamp, J. Chem. Phys., Letter to the Editor, **25**, p. 372, Aug., 1956.

NIELSEN, G., JR., see Baldwin, M. W., Jr.

OHM, E. A.¹

A Broad-Band Microwave Circulator, Trans. I.R.E., PGMTT, **MTT-4**, pp. 210-217, Oct., 1956.

OWENS, C. D.

A Survey of the Properties and Applications of Ferrites Below Microwave Frequencies, Proc. I.R.E., **44**, pp. 1234-1248, Oct., 1956.

OWENS, C. D.¹

Modern Magnetic Ferrites and Their Engineering Applications, Trans. I.R.E., PGCP, **CP-3**, pp. 54-62, Sept., 1956.

¹ Bell Telephone Laboratories, Inc.

⁸ National Research Council, Ottawa, Canada.

PHELPS, J. W.¹

Protection Problems in Telephone Distribution Systems, Telephony, **151**, pp. 20-22, 47-48, Sept. 1, 1956.

PRESCOTT, B. E., see Jaycox, E. K.

POWELL, W.⁷

So You've Invested in Modern Plant—Now What?, Telephony, **151**, pp. 27-28, 48-50, Sept., 1956.

RAMSAY, D. A., see Nelson, L. S.

REISS, H.¹

Refined Theory of Ion Pairing. I — Equilibrium Aspects. II — Irreversible Aspects, J. Chem. Phys., **25**, pp. 400-413, Sept., 1956.

REMEIKA, J. P.¹

Growth of Single Crystal Rare Earth Orthoferrites and Related Compounds, Am. Chem. Soc. J., **78**, pp. 4259-4260, Sept. 5, 1956.

RICHARDS, A. P., see Snoke, L. R.

ROBERTSON, S. D.¹

Recent Advances in Finline Circuits, Trans. I.R.E., PGMTT, **MTT-4**, pp. 263-267, Oct., 1956.

SCHMIDT, W. C.¹

Problems in Miniaturization, Proc. Design Engg. Conf., pp. 40-54 May 14-17, 1956.

SEIDEL, H.¹

Anomalous Propagation in Ferrite-Loaded Waveguide, Proc. I.R.E., **44**, pp. 1410-1414, Oct., 1956.

SHANNON, C. E., see Moore, E. F.

SHULMAN, R. G.,¹ and JACCARINO, V.¹

Effects of Superexchange on the Nuclear Magnetic Resonance of MnF₂, Phys. Rev., Letter to the Editor, **103**, pp. 1126-1127, Aug. 15, 1956.

¹ Bell Telephone Laboratories, Inc.

⁷ New York Telephone Company, New York City.

SHULMAN, R. G.,¹ and WYLUDA, B. J.¹

Nuclear Magnetic Resonance of Si^{29} in n- and p-Type Silicon, Phys. Rev., Letter to the Editor, **103**, pp. 1127-1129, Aug. 15, 1956.

SLEPIAN, D.¹

A Note on Two Binary Signaling Alphabets, Trans. I.R.E., PGIT, **IT-2**, pp. 84-86, June, 1956.

SNOKE, L. R.,¹ and RICHARDS, A. P.⁴

Marine Borer Attack on Lead Cable Sheath, Sci., Letter to the Editor, **124**, p. 443, Sept. 7, 1956.

SPROUL, P. T.¹

A Video Visual Measuring Set with Sync Pulses, Commun. and Electronics, **26**, pp. 427-432, Sept., 1956.

SUHL, H.¹

The Nonlinear Behavior of Ferrites at High Microwave Signal Levels, Proc. I.R.E., **44**, pp. 1270-1284, Oct., 1956.

TANENBAUM, M., see Moll, J. L.

TIEN, P. K.,¹ and MOSHMAN, J.¹

Monte Carlo Calculation of Noise Near the Potential Minimum of a High-Frequency Diode, J. Appl. Phys., **27**, pp. 1067-1078, Sept., 1956.

THOMAS, D. E.,¹ and DACEY, G. C.¹

Application Aspects of the Germanium Diffused Base Transistor, Trans. I.R.E., PGCT, **CT-3**, pp. 22-25, Mar., 1956.

UHLIR, A., Jr.¹

Two-Terminal p-n Junction Devices for Frequency Conversion and Computation, Proc. I.R.E., **44**, pp. 1183-1191, Sept., 1956.

VAN UITERT, L. G.¹

Dielectric Properties of and Conductivity in Ferrites, Proc. I.R.E., **44**, pp. 1294-1303, Oct., 1956.

¹ Bell Telephone Laboratories, Inc.

⁴ Wm. F. Clapp Laboratories, Inc., Duxbury, Mass.

VAN UITERT, L. G.¹

Nickel Copper Ferrites for Microwave Applications, J. Appl. Phys., **27**, pp. 723-727, July, 1956.

WARNER, R. M., JR.,¹ and HITTINGER, W. C.¹

A Developmental Intrinsic-Barrier Transistor, Trans. I.R.E., PGED, **ED-3**, pp. 157-160, July, 1956.

WEINREICH, G.¹

The Transit Time Transistor, J. Appl. Phys., **27**, pp. 1025-1027, Sept., 1956.

WEISS, M. T.¹

Improved Rectangular Waveguide Resonance Isolators, Trans. I.R.E., PGMTT, **Mtt-4**, pp. 240-244, Oct., 1956.

WOLFF, P. A.¹

Theory of Plasma Resonance, Phys. Rev., **103**, pp. 845-850, Aug. 15, 1956.

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

YAGER, W. A., see Galt, J. K.

¹ Bell Telephone Laboratories, Inc.