

Bell System Technical Papers Not Published in this Journal

ANDERSON, O. L.¹ and STUART, D. A.⁹

The Calculation of the Activation Energy of Ionic Conductivity in Silica Glasses by Classical Methods, J. Am. Ceramic Society, **37**, pp. 573-580, Dec., 1954.

BENÉS, V. E.¹

Partial Model for Quine's "New Foundations", J. Symbolic Logic, **19**, pp. 187-200, Sept., 1954.

BOGAN, L. B.² and YOUNG, K. D.²

Simplified Transmission Engineering in Exchange Cable Plant Design, A.I.E.E. Commun. and Electronics, No. 15, pp. 498-502, Nov., 1954.

BOWER, FRANK H.³

Manufacturing Grown Junction Transistors, Electronics, **27**, pp. 130-134, Dec., 1954.

BRERETON, D. S.⁸ and DONNELLY, H. J.⁷

480-Wye/277-Volt Power System in Telephone Building at Menands, N. Y., Elec. Eng., **73**, pp. 1100-1105, Dec., 1954.

BURNS, R. M.¹

Crisis in Science Teaching, J. Electrochem. Soc., **101**, pp. 261C-262C, Nov., 1954.

CALBICK, C. J.¹

Ice, Letter to the Editor, Physics Today, **7**, p. 27, Dec., 1954.

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company.

³ Western Electric Company.

⁷ New York Telephone Company.

⁸ General Electric Company.

⁹ Cornell University.

CAMPBELL, MARY E., see Luke, C. L.

CLARKE, K. B.,³ and COURAGE, J. W.³

Making Small Parts, Electronics, 27, pp. M15-M22, Oct., 1954.

COURAGE, J. W., see Clarke, K. B.

CRUSER, V. I.¹

Equipment and Mechanical Features of the AN/TRC-24 Radio Set, A.I.E.E. Commun. and Electronics, No. 15, pp. 544-547, Nov., 1954.

DANIELSON, W. E., see Pierce, J. R.

DANSER, J. W., see Hazen, D. F.

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

DONNELLY, H. J., see Brereton, D. S.

EBERS, J. J.,¹ and MOLL, J. L.¹

Large-Signal Behavior of Junction Transistors, I.R.E., Proc., 42, pp. 1761-1772, Dec., 1954.

FULLER, C. S.,¹ and DITZENBERGER, J. A.¹

Diffusion of Boron and Phosphorus into Silicon, Letter to the Editor, J. Appl. Phys., 25, pp. 1439-1440, Nov., 1954.

HAZEN, D. F.,⁴ DANSER, J. W.,⁵ and ZILIS, G. S.⁵

A Private Microwave Radio System for Power Company Use, A.I.E.E. Commun. and Electronics, No. 15, pp. 492-498, Nov., 1954.

HELM, H. A.¹

Frequency Response Approach to the Design of a Mechanical Servo, Trans. A.S.M.E., 76, pp. 1195-1214, Nov., 1954.

HOFFMANN, J. P.¹

New Military Carrier Telephone Systems Equipment Features, A.I.E.E. Commun. and Electronics, No. 15, pp. 509-515, Nov., 1954.

¹ Bell Telephone Laboratories, Inc.

³ Western Electric Company.

⁴ Illinois Power Company.

⁵ Illinois Bell Telephone Company.

HUBER, G. H.,¹ MILLER, W. F.,¹ and SCHRAMM, C. W.¹

New Military Carrier Telephone Systems, A.I.E.E. Commun. and Electronics, No. 15, pp. 515-525, Nov., 1954.

JENSEN, A. G.¹

Evolution of Modern Television, J.S.M.P.T.E., **63**, pp. 174-187, Nov., 1954.

KELLY, H. P.¹

Differential Phase and Gain Measurements in Color Television Systems, A.I.E.E. Commun. and Electronics, No. 15, pp. 565-569, Nov., 1954.

KOHN, W.,¹ see Luttinger, J. M.

LUKE, C. L.,¹ and CAMPBELL, MARY E.¹

Photometric Determination of Magnesium in Electronic Nickel, Analyt. Chem., **26**, pp. 1778-1780, Nov., 1954.

LUTTINGER, J. M.,¹ and KOHN, W.¹

Hyperfine Splitting of Donor Status in Silicon, Letter to the Editor, Phys. Rev., **96**, p. 802, Nov. 1, 1954.

MASON, D. R.¹

Design Method for the Calculation of Stagewise Reaction Systems, (in French), Chimie and Industrie, **72**, pp. 241-251, Aug., 1954.

MASON, W. P.,¹ and WICK, R. F.¹

Ferroelectrics and the Dielectric Amplifier, Proc. I.R.E., **42**, pp. 1606-1620, Nov., 1954.

MCLEAN, D. A.,¹ and WEHE, H. G.¹

Miniature Lacquer Film Capacitors, I.R.E., Proc., **42**, pp. 1799-1805 Dec., 1954.

McMILLAN, B.¹

Absolutely Monotone Functions, Annals of Math., **60**, pp. 467-501, Nov., 1954.

¹ Bell Telephone Laboratories, Inc.

MERRILL, J. L., JR.¹

Theory of E-Type Repeaters, A.I.E.E. Commun. and Electronics, No. 15, pp. 443-447, Nov., 1954.

MILLER, W. F., see Huber, G. H.

MINER, E. S.²

Is Your Safety Program Adequate?, Telephony, 147, pp. 17-19, Nov., 1954.

MOLL, J. L.¹

Large-Signal Transient Response of Junction Transistor, I.R.E. Proc., 42, pp. 1773-1784, Dec., 1954.

MOLL, J. L., see Ebers, J. J.

NORDAHL, J. G.¹

A New Ultra High Frequency Multichannel Military Radio Relay System, A.I.E.E. Commun. and Electronics, No. 15, pp. 526-531, Nov., 1954.

PFANN, W. G.¹ and VAN ROOSBROECK, W.¹

Radioactive and Photoelectric p-n Junction Power Sources, J. Appl. Phys., 25, pp. 1422-1434, Nov., 1954.

PIERCE, J. R.,¹ and DANIELSON, W. E.¹

Minimum Noise Figure of Traveling-Wave Tubes with Uniform Helices, J. Appl. Phys., 25, pp. 1163-1165, Sept., 1954.

PIERCE, J. R.¹

Some Recent Advances in Microwave Tubes, I.R.E. Proc., 42, pp. 1735-1747, Dec., 1954.

QUINLAN, A. L.³

Automatic Percussion Welding, A.I.E.E. Commun. and Electronics, No. 15, pp. 561-565, Nov., 1954.

READ, W. T., JR.¹

Statistics of the Occupation of Dislocation Acceptor Centres, Phil. Mag., 45, pp. 1119-1128, Nov., 1954.

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company.

³ Western Electric Company.

ROSE, A. F.²

Negative Impedance Telephone Repeaters — Application in the Bell System, A.I.E.E. Commun. and Electronics, No. 15, pp. 430-435, Nov., 1954.

ROWEN, J. H., and VONAULOCK, W.¹

Measurement of the Complex Tensor Permeability of Ferrites, Letter to the Editor, Phys. Rev., **96**, p. 1151, Nov. 15, 1954.

SCHRAMM, C. W., see Huber, G. H.

SERNELIUS, W. C., see Van Uitert, L. G.

SMETHURST, J. O.¹

E-Type Telephone Repeaters — Description, Equipment, and Testing, A.I.E.E. Commun. and Electronics, No. 15, pp. 435-443, Nov. 1954.

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

SULLIVAN, J. W.¹

A Wide Band Voltage Tunable Oscillator, Proc. I.R.E., **42**, pp. 1658-1665, Nov., 1954.

THOMAS, D. E.¹

Stability Considerations in VHF Point-Contact Transistor Parameter Measurements, Proc. I.R.E., **42**, pp. 1636-1644, Nov., 1954.

VAN ROOSBROECK, W., see Pfann, W. G.

VAN UITERT, L. G.,¹ and SERNELIUS, W. C.⁶

Determination of Thermodynamic Equilibrium Constants in Mixed Solvents, J. Am. Chem. Soc., **76**, pp. 5887-5888, Nov. 20, 1954.

VONAULOCK, W.,¹ see Rowen, J. H.

WEHE, H. G.,¹ see McLean, D. A.

WICK, R. F., see Mason, W. P.

YOUNG, K. D., see Bogan, L. B.

ZILIS, G. S., see Hazen, D. F.

¹ Bell Telephone Laboratories, Inc.

² American Telephone and Telegraph Company

⁶ Pennsylvania State University.

Recent Monographs of Bell System Technical Papers Not Published in This Journal

CHRISTENSEN, H.

Surface Conduction Channel Phenomena in Germanium, Monograph 2304.

CORENZWIT, E., see Matthias, B. T.

DANIELSON, W. E., see Pierce, J. R.

FAGEN, M. D.

Bibliography on Ultrasonic Delay Lines, Monograph 2317.

FULLER, C. S., and **SEVERIENS, J. C.**

Mobility of Impurity Ions in Germanium and Silicon, Monograph 2309.

GEBALLE, T. H., see Matthias, B. T.

SELLER, S., see Matthias, B. T.

HAGSTRUM, H. D.

Auger Ejection of Electrons from Tungsten, Monograph 2313.

HAGSTRUM, H. D.

Auger Ejection of Electrons from Metals by Ions, Monograph 2351.

KARP, A.

Traveling-Wave Tube Experiments at Millimeter Wavelengths,
Monograph 2369.

* Copies of these monographs may be obtained on request to the Publication Department, Bell Telephone Laboratories, Inc., 463 West Street, New York 14, N. Y. The numbers of the monographs should be given in all requests.

LAW, J. T.

Effect of Water on Grown Germanium N-P Junctions, Monograph 2315.

LOGAN, R. A., and SCHWARTZ, M.

Thermal Effects on Lifetime of Minority Carriers in Germanium, Monograph 2312.

MAHONEY, J. J., see Perkins, E. H.

MATTHIAS, B. T., GEBALLE, T. H., GELLER, S., and CORENZWIT, E.
Superconductivity of Nb_3Sn , Monograph 2355.

MERZ, W. J.

Domain Formation and Domain Wall Motions in Ferroelectric $BaTiO_3$ Single Crystals, Monograph 2286.

PERKINS, E. H., and MAHONEY, J. J.

Type-N Carrier Telephone Deviation Regulator, Monograph 2318.

PIERCE, J. R., and DANIELSON, W. E.

Minimum Noise Figure of Traveling-Wave Tubes with Uniform Helices, Monograph 2237.

PIERCE, J. R., and TIEN, P. K.

Coupling of Modes in Helixes, Monograph 2303.

SCHWARTZ, M., see Logan, R. A.

SEVERIENS, J. C., see Fuller, C. S.

TIEN, P. K., see Pierce, J. R.

TIEN, P. K.

Focusing of a Long Cylindrical Electron Stream, Monograph 2293.