

PUBLICATIONS AND REPORTS

Meeting Papers

The Institute of Radio Engineers (New England Section), Cambridge, Mass., May 22, 1948.

E. R. Kretzmer, "Certain Aspects of Pulse Modulation".
S. C. Brown, "Microwave Gas Discharge Counters for the Detection of Ionizing Radiation".

The American Physical Society (New England Section), Cambridge, Mass., May 29, 1948.

G. Knight and B. T. Feld, "Interaction of Nuclear Quadrupole Moments with Molecular Rotation in Slightly Asymmetric Rotor Molecules".

Ohio State University, Columbus, Ohio, June 14 - 19, 1948.

M. W. P. Strandberg, "Microwave Spectra of Linear Molecules".
Symposium on Molecular Structure and Spectroscopy.

The American Physical Society, Madison, Wisconsin, June 21, 22, and 23, 1948.

M. A. Herlin, "Electrical Discharges in Gases at Microwave Frequencies".
W. B. Nottingham, and W. E. Mutter, "Photoelectric Technique for Spectral Emissivity Determination Illustrated by Results on Tungsten".

The Institute of Radio Engineers, Ithaca, New York, June 28, and 29, 1948.

G. E. Duvall, "Noise Measurements at 30 to 60 Megacycles".
R. R. Moats, "Mode Stability in Magnetrons".
V. Mayper, Jr., "Pre-oscillation Noise in Magnetrons".
E. E. David, Jr., "Locking Phenomena in Microwave Oscillators".

Technical Reports¹

- No. 28. T. P. Cheatham, Jr., and W. G. Tuller, "Results of Transient Analysis of Impulse Noise in FM Receivers", January 20, 1947; also to be submitted to Proc. I.R.E.
- No. 32. S. Goldman, "Some Fundamental Considerations Concerning Noise Reduction and Range in Radar and Communication", December 15, 1947; also published in Proc. I.R.E., 36, 584 (1948).
- No. 33. M. V. Cerrillo, "Transients in Waveguides", January 3, 1948; also abridged version to be published in book of Proc. U.R.S.I. Meeting in Stockholm, Sweden, January 12 - 22, 1948.
- No. 38. L. J. Chu and J. D. Jackson, "Field Theory of Traveling-Wave Tubes", April 28, 1947; also published in Proc. I.R.E., 36, 853 (1948).
- No. 45. J. K. Galt, "Mechanical Properties of Alkali-Halide Crystals (NaCl, KBr, KCl)", September 15, 1947; also published in Phys. Rev. 73, 1460 (1948).

1. The technical reports listed here may be obtained upon request from the Document Office, 20 B-221, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.

- No. 46. J. K. Galt, "Sound Absorption and Velocity in Liquefied Argon, Oxygen, Nitrogen, and Hydrogen", September 17, 1947; also published in J. of Chem. Phys. 16, 505 (1948).
- No. 56. W. T. Dyal, "A Study of the Persistence Characteristics of Various Cathode Ray Tube Phosphors", January 16, 1948.
- No. 60. S. C. Brown, M. A. Herlin, "Breakdown of a Gas at Microwave Frequencies", May 13, 1948; also submitted to Phys. Rev.
- No. 62. R. M. Fano, "A Note on the Solution of Certain Approximation Problems in Network Synthesis", April 16, 1948; also submitted to M.I.T., J. Math. and Phys.
- No. 64. L. J. Chu, "Physical Limitations of Omnidirectional Antennas, May 1, 1948; also submitted to J. App. Phys.
- No. 66. S. C. Brown, M. A. Biondi, E. Everhart, M. A. Herlin, D. E. Kerr, "Methods of Measuring the Properties of Ionized Gases at Microwave Frequencies", May 17, 1948.
- No. 67. G. W. Mahlman, "Work Functions and Conductivity of Oxide-Coated Cathodes", May 31, 1948; also a condensed version to be submitted to J. App. Phys.
- No. 69. R. Cohen, "Some Analytical and Practical Aspects of Wiener's Theory of Prediction", June 2, 1948.

