PUBLICATIONS AND REPORTS

Meeting Papers Presented

Symposium on the Theory of Electromagnetic Waves, New York University, June 8, 1950

- R. B. Adler: Waves on Inhomogeneous Cylindrical Structures
- M. V. Cerrillo: Evolution of Integral Associated with Wave Motion in Dispersive Media

Tenth Annual Conference on Physical Electronics, Massachusetts Institute of Technology, March 30 to April 1, 1950

- C. P. Hadley: Fine Grain Oxide-Coated Filaments
- R. M. Howe: Probe Measurements in a Low Pressure Mercury Arc Discharge
- J. F. Waymouth, Jr.: Deterioration of Oxide Cathodes under Low Duty-Factor Operation
- M. K. Wilkinson: Field Emission Properties of Single Tungsten Crystals

Journal Articles Accepted for Publication

- W. C. Dickinson: Hartree Computation of the Internal Diamagnetic Field for Atoms (Phys. Rev.)
- R. M. Fano: The Information Theory Point of View in Speech Communication (J. Acous. Soc. Am.)
- P. E. Green, Jr.: Magnetic Tape Recorder for Very Low Frequency Phenomena (Rev. Sci. Insts.)
- B. Lax, W. P. Allis, S. C. Brown: The Effect of Magnetic Field on the Breakdown of Gases at Microwave Frequencies (J. App. Phys.)
- Y. W. Lee: Communication Applications of Correlation Analysis (Symposium on Applications of Autocorrelation Analysis to Physical Problems, Office of Naval Research)
- Y. W. Lee, T. P. Cheatham, J. B. Wiesner: The Application of Correlation Functions in the Detection of Small Signals in Noise (Proc. I.R.E.)
- A. J. Lephakis: Communication Applications of Storage Devices (Electronics)
- L. J. Varnerin, Jr., S. C. Brown: Microwave Determinations of Average Electron Energies and the First Townsend Coefficient in Hydrogen (Phys. Rev.)

Technical Reports Published

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

- No. 145 John G. Linvill: The Selection of Network Functions to Approximate Prescribed Frequency Characteristics
- No. 154 A. J. Lephakis: An Electrostatic-Tube Storage System

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Technical Reports Published (continued)

- No. 155 R. M. Fano: On a Class of Transfer Functions Suitable for Video Networks
- No. 156 John P. Costas: Periodic Sampling of Stationary Time Series
- No. 158 L. J. Varnerin, Jr., S. C. Brown: Microwave Determinations of Average Electron Energies and the First Townsend Coefficient in Hydrogen
- No. 159 J. F. Waymouth, Jr.: Deterioration of Oxide-Coated Cathodes under Low Duty-Factor Operation
- No. 161 E. H. Sondheimer: The Influence of a Transverse Magnetic Field on the Conductivity of Thin Metallic Films
- No. 165 B. Lax, W. P. Allis, S. C. Brown: The Effect of Magnetic Field on the Breakdown of Gases at Microwave Frequencies
- No. 167 C. C. Loomis, M. W. P. Strandberg: Microwave Spectrum of Phosphine, Arsine and Stibine