

PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

International Business Machines Seminar  
December 15, 1952, Poughkeepsie, New York

W. S. McCulloch: The Electrical Nature of Nervous Activity

Modern Language Association of America Convention  
December 27-29, 1952, Boston, Massachusetts

Carol D. Schatz: A Comparison of Human and Synthetic Speech in Combining  
p t k Bursts with Vowels

Linguistic Society of America  
December 27-28, 1952, Cambridge, Massachusetts

Y. Bar-Hillel: Some Methodological Remarks on Definitions in Linguistics

American Physical Society Annual Meeting  
January 22-24, 1953, Harvard University  
Cambridge, Massachusetts

F. Bitter: Magneto Resonance and Magnetic Optics (invited paper)

B. F. Burke, M. W. P. Strandberg: Zeeman Effect in Rotational Spectra  
of Asymmetric-Rotor Molecules

J. M. Goldey: Microwave Determination of Electrical Properties of  
Germanium

Annual Conference on Current Trends  
in Psychology (Information Theory)  
February 20-21, 1953, University of Pittsburgh  
Pittsburgh, Pennsylvania

W. S. McCulloch: Information Coding in Neural Nets

JOURNAL ARTICLES ACCEPTED FOR PUBLICATION

Y. Bar-Hillel: The Present State of Research in Mechanical Translation  
(Am. Documentation)

F. Bitter, R. F. Lacey, B. Richter: Optically Induced Nuclear Magnetism  
A Progress Report (Revs. Modern Phys.)

JOURNAL ARTICLES ACCEPTED FOR PUBLICATION (continued)

- R. E. Burgess, H. Kroemer, J. M. Houston: Corrected Values of Fowler-Nordheim Field Emission Functions  $v(y)$  and  $s(y)$  (Phys. Rev.)
- B. F. Burke, M. W. P. Strandberg: Zeeman Effect in Rotational Spectra of Asymmetric-Rotor Molecules (Phys. Rev.)
- W. B. Davenport, Jr.: Signal-to-Noise Ratios in Bandpass Limiters (J. Appl. Phys.)
- S. J. Mason: Some Properties of Signal Flow Graphs (Proc. I. R. E.) (T. R. 153)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- V. Mayper, Jr., M. A. Herlin: Second-Sound Velocity Below 1°K as a Function of Pressure (Phys. Rev.)
- F. Rosebury: A High-Temperature Thermoregulator (R. S. I. Lab. and Shop Notes)

TECHNICAL REPORTS PUBLISHED

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

- No. 117 R. Q. Twiss: A Noise Theory for the Magnetron. II. The Steady State Symmetrical Space Charge Distribution in a Magnetron
- No. 194 S. Sensiper: Electromagnetic Wave Propagation on Helical Conductors
- No. 229 W. P. Allis, S. C. Brown: High-Frequency Electrical Break-down of Gases
- No. 247 R. Carnap, Y. Bar-Hillel: An Outline of a Theory of Semantic Information

SPECIAL PUBLICATION

- F. L. Stumpers: A Bibliography of Information Theory. Communication Theory - Cybernetics