

PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

National Academy of Sciences, Madison, Wisconsin

October 11-13, 1964

D. C. Teas and N. Y-s. Kiang, Components of the Complex Response Evoked from the Auditory Cortex of Unanesthetized Cats (invited)

Lecture, Center for Dynamic Systems, Brown University, Providence, Rhode Island

December 9, 1964

M. C. Goodall, Rapprochement between Discrete and Continuous Systems (invited)

Lecture, IEEE Combined Groups of Circuit Theory, Information Theory, and Electron Devices, L. C. Smith College of Engineering, Syracuse University, Syracuse, New York

December 10, 1964

S. J. Mason, Sensory Aids Research (invited)

IX Interamerican Congress of Psychology, Miami, Florida

December 16-21, 1964

P. A. Kolers, Recall of Bilingually Presented Words

Linguistic Society of America Meeting, New York

December 28, 1964

R. Kiparsky, Analogy and Sound Change

S. A. Schane, Cyclic Rules in the Phonological Component of a Transformational Grammar of French

Psychology Department Colloquium, Brown University, Providence, Rhode Island

January 13, 1965

N. Y-s. Kiang, Stimulus Coding in the Auditory Nervous System: An Electrophysiological Analysis (invited)

Annual Meeting of the American Physical Society, New York

January 27-30, 1965

A. N. Chandra and W. D. Jackson, Superconducting Solenoids under AC Excitation

Symposium on Acoustical Physics, American Physical Society Meeting, New York

January 27-30, 1965

U. Ingard, Nonlinear Effects and Other Phenomena in Sound Fields (invited review paper)

Seminar of Neurophysiology, Faculté des Sciences, Paris, France

February 2, 1965

W. A. Rosenblith, Nouvelles Données sur la Codage de la Stimulation dans le Système Auditif (invited)

MEETING PAPERS PRESENTED (continued)

International Solid State Circuits Conference, University of Pennsylvania, Philadelphia, Pennsylvania

February 17-19, 1965

D. H. Steinbrecher, Analog Circuit for Determining the Ratio and Product of Two Time Functions

Seminar, Institute of Aerospace Studies, University of Toronto, Ontario, Canada

February 18, 1965

U. Ingard, Nonlinear Effects and Other Phenomena in Sound Fields (invited)

JOURNAL ARTICLES ACCEPTED FOR PUBLICATION

(Reprints, if available, may be obtained from the Document Room, 26-327, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts, 02139.)

- V. R. Algazi, Generalized Signal-to-Noise Ratio and Performance Index of Filters for Waveform Estimation (IEEE Trans. (SET))
- M. Arbib and M. Blum, Machine Dependence of Degrees of Difficulty (Proc. Am. Math. Soc.)
- F. Bitter, Ultrastrong Magnetic Fields (Sci. American)
- A. Cavaggioni and M. H. Goldstein, Jr., Facilitation and Inhibition in the Visual System after Photic Stimulation (Arch. ital. Biol. (Pisa))
- G. Fiocco, Optical Radar Results and Ionospheric Sporadic E (J. Geophys. Res.)
- R. Geick, Evidence for a Considerable Nonlinear Dipole Absorption in Gallium Arsenide (Phys. Rev.)
- J. L. Hall II, A Neural Model for Binaural Localization (IEEE Student J.)
- F. C. Hennie, One-tape, Off-line, Turing Machine Computations (Inform. Contr.)
- T. S. Huang, The Subjective Effect of Two-dimensional Pictorial Noise (IEEE Trans. (PTGIT))
- T. S. Huang and H. B. Lee, Bounds on Impedance Functions of R, $\pm L$, $\pm C$, T Networks (J. Franklin Inst.)
- J. C. Ingraham and S. C. Brown, The Helium Afterglow and the Decay of the Electron Energy (Phys. Rev.)
- J. J. Katz, Semantic Theory and the Meaning of 'Good' (Philos. Rev.)
- Y. W. Lee and M. Schetzen, Measurement of the Wiener Kernels of a Nonlinear System by Crosscorrelation (Internatl. J. Contr.)
- D. L. Morse, Plasma Rotation in a Hollow-Cathode Discharge (Phys. Fluids)
- Paul Penfield, Jr., Passivity Conditions (IEEE Trans. (CT))
- R. R. Pfeiffer and N. Y-s. Kiang, Patterns of Spontaneous and Continuously Stimulated Spike Discharges in the Cochlear Nucleus of Anesthetized Cats (Biophys. J.)

JOURNAL PAPERS ACCEPTED FOR PUBLICATION (continued)

- D. J. Rose, General Criterion for Mirror Instability of a Plasma (Phys. Fluids)
D. J. Sakrison, A Continuous Kiefer-Wolfowitz Process (Ann. Math. Statist.)
H. L. Witting and E. P. Gyftopoulos, Ionization Processes in a Low-Energy Cesium Plasma (J. Appl. Phys.)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- A. Bers and S. Gruber, Negative-Energy Plasma Waves and Instabilities at Cyclotron Harmonics (Phys. Rev.)
H. B. Lee, Bounds on the Natural Frequencies of LC Structures (IEEE Trans. (CT))
L. M. Mendell and P. D. Wall, Response of Single Dorsal Cord Cells to Peripheral Cutaneous Unmyelinated Fibres (Nature)
P. Penfield, Jr., Maximum Cutoff Frequency of Varactor Diodes (Proc. IEEE)
P. Penfield, Jr., Note on Fourier Coefficients of Power-Law Devices (Proc. IEEE)
P. Penfield, Jr. and H. A. Haus, Electrodynamics of Moving Media (Proc. IEEE)
A. W. Rowe and J. L. Kerrebrock, Nonequilibrium Electric Conductivity of Two-Phase Metal Vapors (AIAA J.)
L. D. Smullin, A Criticism of "Energetic Electrons from a Beam Plasma Overstability" (Phys. Fluids)
D. S. Thompson and J. S. Waugh, Adjustable Ruby Intensity Standard for ESR Spectra (Rev. Sci. Instr.)

TECHNICAL REPORTS PUBLISHED

(These and previously published technical reports, if available, may be obtained from the Document Room, 26-327, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts, 02139.)

- 432 Alan V. Oppenheim, Superposition in a Class of Nonlinear Systems
433 L. J. Chu, H. A. Haus, and P. Penfield, Jr., The Force Density in Polarizable and Magnetizable Fluids

SPECIAL PUBLICATIONS

- W. D. Jackson, J. R. Ellis, Jr., and G. O. Barnett, Calibration of Electromagnetic Flowmeters for Blood-Flow Measurement (Proc. 5th International Conference on Medical Electronics, Liège, Belgium, July 22-26, 1964)
J. J. Katz, The Philosophy of Language (a chapter in Harper Guide to Philosophy, edited by A. Danto. Harper and Rowe, New York, 1965)
W. A. Rosenblith, Engineering in the Sciences of Life and Man (Listen to Leaders in Engineering, edited by A. Love and J. S. Childers. Tupper and Love, Atlanta, 1965, pp. 275-288)