PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

Optical Society of America Meeting, Pittsburgh, Pennsylvania
March 2-4, 1961

C. C. Robinson, The measurement of the parameters for the longitudinal Kerr
magneto-optic effect in ferromagnetic films

Second Symposium on the Engineering Aspects of Magnetohydrodynamics, University
of Pennsylvania, Philadelphia, Pennsylvania
March 9-10, 1961

T. J. Fessenden, Production of a plasma with high-power, pulsed microwaves
W. D. Jackson, E. S. Pierson, and D. A. East, A magnetohydrodynamic power
converter
L. D. Smullin, W. D. Getty, and A. Starr, The hollow-cathode arc
H. H. Woodson and A. T. Lewis, Some requirements for the operation of magneto-
hydrodynamic induction generators

IRE International Convention, New York
March 20-23, 1961

P. Chorney, Power and energy relations in bidirectional waveguides
R. G. Gallager, Low-density parity-check codes
W. D. Jackson, Calibration of electromagnetic flowmeters
D. J. Sakrison, Application of stochastic approximation methods to optimum
filter design

IRE-PGCT Symposium on Time-Varying Networks, IRE International Convention,
New York
March 24, 1961

T. Kailath, Some models for linear time-variant filters and their use in
communication problems (invited)

Symposium on Electromagnetics and Fluid Dynamics of Gaseous Plasma, Polytechnic
Institute of Brooklyn, New York
April 4-6, 1961

P. Chorney, Power and energy relations in bidirectional waveguides

Division of Instrumentation Meeting, New York Academy of Sciences, New York
April 11, 1961

M. H. Goldstein, Jr., Computer techniques in neurophysiological research (invited)
MEETING PAPERS PRESENTED (continued)

Annual Meeting, Federation of American Societies for Experimental Biology, Atlantic City, New Jersey
April 15, 1961

L. Stark, An artificial clamp for pupil oscillation

Symposium on Computer Techniques in Physiology, Annual Meeting, Federation of American Societies for Experimental Biology, Atlantic City, New Jersey
April 15, 1961

B. G. Farley, Simulation of nerve nets (invited)

Spring Lecture Series No. 2 on "Synthesis of Intelligent Behavior," Philadelphia Sections of IRE and SIAM, Philadelphia, Pennsylvania
April 24, 1961

B. G. Farley, Simulation of neural networks (invited)

Lecture Series sponsored by the Biophysical Society, Duke University, Durham, North Carolina
April 24-25, 1961

W. A. Rosenblith, Sensory performance of organisms (invited)

The quantification of neuroelectric activity (invited Zoology Seminar)

American Physical Society Meeting, Washington, D.C.
April 24-27, 1961

T. H. Dupree, Dynamics of ionized gases

H. H. Stroke, Distribution of charge and magnetization in nuclei as seen by extranuclear electrons (invited)

S. Yoshikawa, Collision frequency of a plasma as a function of applied ac frequency

Meeting of the American Academy of Neurology, Detroit, Michigan
April 26, 1961

J. S. Barlow, Frequency analysis, toposcopy, and autocorrelation and cross-correlation of the EEG (invited)

Lecture at Emory University, Georgia
May 1, 1961

W. A. Rosenblith, A biophysical view of sensory performance (invited)

Lectures at University of the South, Sewanee, Tennessee
May 2-3, 1961

W. A. Rosenblith, Sensory performances of organisms (invited)

Quantification procedures in the life sciences (invited Biology Seminar)
MEETING PAPERS PRESENTED (continued)

Louis Block Memorial Lectures, University of Chicago, Chicago, Illinois
May 2-3, 1961

N. Y-S. Kiang, The steamroller and walnut, or "What is N_2"? (invited)
Single-unit studies of the auditory system (invited)

Thomas J. Watson Research Laboratory, Yorktown Heights, New York
May 4, 1961

N. Chomsky, Recent work on grammar and automata (invited)

Lectures at Vanderbilt University, Nashville, Tennessee
May 4-5, 1961

W. A. Rosenblith, The sensory performance of organisms (invited)
The auditory system as a model sensory system
(invited Molecular Biology Seminar)

Conference on Methods in Philosophy and Sciences, New School for Social Research,
New York
May 21, 1961

N. Chomsky, Some observations on linguistic structures (invited)

Louis Block Memorial Lectures, University of Chicago, Chicago, Illinois
May 23, 1961

M. H. Goldstein, Jr., Exploring the nervous system with electrodes, computers,
and mathematical models (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 39, Massachusetts.)

G. Bekefi and S. C. Brown, Emission of radio-frequency waves from plasmas
(Am. J. Phys.)

O. Fujimura, Bilabial stop and nasal consonants: A motion-picture study and its
acoustical implications (J. Speech Hearing Res.)

R. Gajewski and J. L. Hirshfield, Influence of Coulomb interactions on the cyclotron
radiation of electrons moving in a single orbit (Phys. Fluids)

D. M. Green, Detection of auditory sinusoids of uncertain frequency (J. Acoust. Soc. Am.)

H. A. Haus, Review of "Electrical Noise" by W. R. Bennett (Proc. IRE)
JOURNAL ARTICLES ACCEPTED FOR PUBLICATION (continued)

R. J. Hull and H. H. Stroke, Hyperfine-structure separations, isotope shifts, and nuclear magnetic moments of the radioactive isotopes of $\text{Tl}^{199}$, $\text{Tl}^{200}$, $\text{Tl}^{201}$, $\text{Tl}^{202}$, and $\text{Tl}^{204}$ (J. Opt. Soc. Am.)

A. L. Loeb, A modular algebra for the description of crystal structures (Acta Cryst.)

J. R. Melcher, Electrohydrodynamic and magnetohydrodynamic surface waves and instabilities (Phys. Fluids)

W. B. Nottingham, G. N. Hatsopoulos, and E. N. Carabateas, Thermionic conversion of heat to electricity (Aerospace Engr.)

L. Stark, M. Iida, and P. A. Willis, Dynamic characteristics of the motor coordination system in man (Biophys. J.)


J. A. Swets, Is there a sensory threshold? (Science)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

A. G. Baker, Joule heated oven-type evaporator (Rev. Sci. Instr.)

D. M. Green, Some comments and a correction of "Psychoacoustics and Detection Theory" (J. Acoust. Soc. Am.)

R. C. Wingerson, "Corkscrew" — A device for changing the magnetic moments of charged particles in a magnetic field (Phys. Rev. Letters)

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 39, Massachusetts.)

360 L. Tisza, The Thermodynamics of Phase Equilibrium
368 D. W. Tufts, Design Problems in Pulse Transmission
371 A. D. Hause, Nonlinear Least-Squares Filtering and Frequency Modulation
376 O. P. Manley, Migration and Effects of Copper in P-type Bismuth Telluride
381 G. S. Sebestyen, Categorization in Pattern Recognition

SPECIAL PUBLICATIONS

P. Elias and others, URSI U.S.A. National Committee Report on Information Theory (Trans. IRE, PGIT)