PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

International Symposium on High-Temperature Technology (sponsored by Stanford Research Institute), Monterey, California
September 8-11, 1963

W. B. Nottingham, Emitter Materials for High-Temperature Energy Conversion

International Scientific Radio Union General Assembly, Tokyo, Japan
September 9-20, 1963

A. G. Bose, A Two-State Modulation System
J. M. Wozencraft and R. S. Kennedy, Coding and Communication

American Chemical Society Fall Meeting, New York
September 11, 1963

G. G. Hammes, Relaxation Spectra of Enzymatic Reactions

Fifth International Congress of Slavists, Sofia, Bulgaria
September 17-24, 1963

M. Halle, On Cyclically Ordered Rules in the Russian Conjugation Systems of Slavic Languages (in Russian)

Physics Seminar, University of New Hampshire, Durham, New Hampshire
October 3, 1963

S. C. Brown, Infrared Studies of High-Density Plasmas (invited)

American Electroencephalographic Society Meeting, San Francisco, California
October 7-9, 1963

J. S. Barlow, Some Preliminary Observations on Evoked Responses and Perception of Visual Stimuli in Man (invited)

Thermionic Converter Specialist Conference (sponsored by IEEE), Gatlinberg, Tennessee
October 7-9, 1963

W. B. Nottingham, Voltage-Current Data Interpreted in Relation to the Theory of the Isothermal Cesium Diode
H. L. Witting and E. P. Gyftopoulos, Volume Ionization Processes in Cesium Converters

Institute of Electrical and Electronic Engineers, Boston Section Meeting, Boston, Massachusetts
October 8, 1963

W. A. Rosenblith, Engineering and the Sciences of Life and Man (invited)
MEETING PAPERS PRESENTED (continued)

Fifth IBM Medical Symposium, Endicott, New York
October 11, 1963

W. A. Rosenblith, The Use of Computational Techniques in the Study of Brain Function (invited)

Sixteenth Annual Gaseous Electronics Conference, Mellon Institute, Pittsburgh, Pennsylvania
October 16-18, 1963


IEEE Joint Meeting, Professional Groups on Nuclear Science, Microwave Theory and Techniques, and Electron Devices, Boston, Massachusetts
October 23, 1963

A. Bers, Electron Beam-Plasma Interaction for Fusion (invited)

National Electronics Conference, Chicago, Illinois
October 28-30, 1963

R. P. Rafuse, Recent Developments in Parametric Multipliers

NEREM Conference, Boston, Massachusetts
November 4-6, 1963

H. H. Woodson, Magnetohydrodynamic Power Generation

Associated Mid-West Universities, Argonne National Laboratory Conference on Direct Conversion, Lemont, Illinois
November 5, 1963

W. D. Jackson, Review of MHD Power Generation (invited)

Acoustical Society of America Meeting, University of Michigan, Ann Arbor, Michigan
November 6-9, 1963

J. L. Hall II, Binaural Interaction in the Accessory Superior Olivary Nucleus of the Cat

T. F. Weiss, Response of a Model of the Peripheral Auditory System to Sinusoidal Stimuli

American Physical Society, Division of Plasma Physics Fifth Annual Meeting, San Diego, California
November 6-9, 1963

A. Bers and R. J. Briggs, Criteria for Determining Absolute Instabilities and Distinguishing between Amplifying and Evanescent Waves

R. J. Briggs and A. Bers, Electron-Beam Interactions with Ions in a Hot Plasma

T. H. Dupree, Theory of Radiation Emission and Absorption in Plasma

W. D. Getty, High-Perveance Electron Beam-Plasma Interaction
MEETING PAPERS PRESENTED (continued)

L. M. Lidsky, Orbit Stability in the Corkscrew
D. L. Morse, Low-Frequency Instabilities of a Partially Ionized Plasma in a Magnetic Field
D. L. Morse, Plasma Rotation in a Hollow-Cathode Discharge
D. J. Rose, L. M. Lidsky, and E. Thompson, Radiation Enhancement in an Optical Thomson Scattering Experiment
L. D. Smullin, The Beam Plasma Discharge (invited)

Physics Colloquium, Dartmouth College, Hanover, New Hampshire
November 14, 1963

S. C. Brown, Far Infrared Studies of Gas Discharge Plasmas (invited)

16th Annual Conference on Engineering in Medicine and Biology, Baltimore, Maryland
November 18-20, 1963

M. Eden and P. Mermelstein, Mathematical Models for the Dynamics of Handwriting Generation
W. H. Levison, G. O. Barnett, and W. D. Jackson, Nonlinear Analysis of the Pressoreceptor Reflex System

Sechenov Centennial Celebration, Academy of Sciences, Moscow, U.S.S.R.
November 24-30, 1963

W. A. Rosenblith, D. A. Fessard, J. Massion, and R. D. Hall, Cortical and Thalamic Responses to Somatic Stimulation in Awake and Asleep Cats (invited)

American Physical Society, Division of Plasma Physics Meeting, Cambridge, Massachusetts
November 26, 1963

N. Gothard, W. D. Jackson, and J. F. Carson, Preliminary Experiments with a Liquid-Metal MHD Waveguide
W. D. Jackson and M. H. Reid, Experimental Study of Induction-Coupled Liquid-Metal MHD Channel Flow

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.)

A. Bers, Electron Beam-Plasma Interaction for Fusion (The Reflector)
M. Clarke, Jr. and P. Milner, Dependence of Timbre upon Tonal Loudness Produced by Musical Instruments (J. Audio Eng. Soc.)
JOURNAL ARTICLES ACCEPTED FOR PUBLICATION (continued)

M. Eden, Human Information Processing (IEEE Trans. PGIT)

J. A. Fodor, Review of "Questions of Meaning" by L. Antal (Language)


W. J. C. Grant and M. W. P. Strandberg, Derivation of Spin Hamiltonians by Tensor Decomposition (J. Phys. Chem. Solids)


J. J. Katz and J. A. Fodor, A Reply to Dixon's "A Trend in Semantics" (Linguistics)

C. L. Liu, The Memory Orders of States of an Automaton (J. Franklin Inst.)


D. R. Whitehouse and H. B. Wollman, Plasma Diffusion in a Magnetic Field (Phys. Fluids)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

J. A. Bellisio, C. Freed, and H. A. Haus, Noise Measurements on Gaseous Optical Maser Oscillators (J. Appl. Phys.)

W. H. Heiser, Magnetohydrodynamic Shock Waves and Magnetically Driven Shock Tubes (Phys. Fluids)

S. G. Kukolich, Ammonia Maser with Separated Oscillating Fields (Proc. IEEE)

O. Redi and H. H. Stroke, Spins and Nuclear Moments of Hg$^{203}$ (Phys. Letters (Amsterdam))

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.)

414 Laszlo Tisza and P. M. Quay, The Statistical Thermodynamics of Equilibrium

416 Joseph L. Hall II, Binaural Interaction in the Accessory Superior Olivary Nucleus of the Cat - An Electrophysiological Study of Single Neurons

417 William D. Rummler, Optimum Noise Performance of Multiterminal Amplifiers

418 Thomas F. Weiss, A Model for Firing Patterns of Auditory Nerve Fibers

419 Michael A. Arbib, Hitting and Martingale Characterizations of One-Dimensional Diffusions

SPECIAL PUBLICATIONS

W. P. Allis and J. L. Delcroix, Notions générales sur la théorie macroscopique des ondes dans les Plasmas (Seminar, University of Paris, September 1962)

A. G. Bose, A Two-State Modulation System (Proc. 1963 Western Electronic Show and Convention, Los Angeles, California, August 20-23, 1963)


Proceedings of the VIth International Conference on Ionization Phenomena in Gases, Orsay (S-et-O), France, September 1, 1963. The following papers are included:

H. Fields and G. Bekefi, Relaxation Rate of Electrons to Equilibrium
J. C. Ingraham and S. C. Brown, Electron Energy Decay in the Helium Afterglow
P. W. Jameson and D. R. Whitehouse, Electron Energy Streaming in a Collisionless Plasma
J. F. Waymouth, Perturbation of a Plasma by a Probe