PUBLICATIONS AND REPORTS
MEETING PAPERS PRESENTED

Summer Course, University of Gent, Gent, Belgium
August 28-September 9, 1967
M. W. P. Strandberg, Paramagnetic Defects in Crystals (invited)

International Symposium on Beam-Plasma Interactions, Czechoslovak Academy of
Sciences, Institute of Plasma Physics, Prague, Czechoslovakia
September 4-6, 1967
A. Bers, Theory of Beam-Plasma Interactions

Molecular Spectroscopy Symposium, The Ohio State University, Columbus, Ohio
September 5-9, 1967
T. G. Davis, N. E. Tornberg, and C. H. Perry, Infrared and Raman Spectra
of Some Mixed Tantalate Perovskites
Jeanne H. Fertel, E. M. Immerman, and C. H. Perry, Phonons in the Mixed-
Crystal System KCl-KBr
D. H. Muehler and C. H. Perry, Far Infrared Impurity-Induced Absorption
in ABF₃ Single Crystal
J. F. Parrish and C. H. Perry, Lattice Vibrations in CdSₓSe₁₋ₓ Mixed Crystals

American Physical Society Meeting on II-VI Semiconducting Compounds, Providence,
Rhode Island
September 6-8, 1967
Crystal System CdSₓSe₁₋ₓ

International Conference on Future Goals for Engineering, Biology and Medicine,
Washington, D.C.
September 8-9, 1967
W. S. McCulloch, Neurophysiology (invited)

Instrument Society of America, 22nd Annual International Conference and Exhibit,
Chicago, Illinois
September 11-14, 1967
W. A. Rosenblith, Biomedical Instrumentation-Advances to Safeguard Man's
Health (invited)

Summer Course, Istituto Superiore di Sanità, Rome, Italy
September 11-15, 1967
M. W. P. Strandberg, Introduction to Paramagnetic Resonance

IEEE International Symposium on Information Theory, San Remo, Italy
September 11-15, 1967
P. Elias, Bounds on Quantizer Performance
R. G. Gallager, A Coding Theorem for Discrete Time Channels with Memory
R. S. Kennedy and E. V. Hoversten, On the Reliability of the Atmosphere as
an Optical Communication Channel
Second Materials Research Symposium, "Molecular Dynamics and Structure of Solids," National Bureau of Standards, Gaithersburg, Maryland
October 16-19, 1967
  T. G. Davis, N. E. Tornberg, C. H. Perry, and N. Knable, Optical Phonons in Mixed Sodium Potassium Tantalates

20th Annual Gaseous Electronics Conference, San Francisco, California
October 18-20, 1967
  W. P. Allis, Exact Nonlinear Waves in a Collisionless Plasma

Association for Research in Ophthalmology, National Meeting, Chicago, Illinois
October 26-28, 1967
  G. D. Bernard and W. H. Miller, Interference Filters in the Corneas of Dioptera

The Psychonomic Society, Eighth Annual Scientific Meeting, Chicago, Illinois
October 26-28, 1967
  P. A. Kolers, Visual Transformations as Base-Dependent Operations

1967 Thermionic Conversion Specialist Conference, NASA Ames Research Center, Palo Alto, California
October 30-November 2, 1967

Physics Colloquium, Northeastern University, Boston, Massachusetts
November 2, 1967
  C. H. Perry, Optical Phonons in Ferroelectric Materials (invited)

20th Annual Northeast Electronics Research and Engineering Meeting of the IEEE, Boston, Massachusetts
November 3-5, 1967
  A. H. Barrett, Advances in Spectral Line Radio Astronomy
  R. W. Schafer, Echo Removal by Generalized Linear Filtering
  H-m. D. Toong, Interpretation of Atmospheric Emission Spectra near 1-cm Wavelength

Conference on Speech Processing (sponsored by Air Force Cambridge Research Laboratories and IEEE), Cambridge, Massachusetts
November 6-9, 1967
  K. N. Stevens, Acoustic Correlates of Certain Consonantal Features

Division of Plasma Physics, American Physical Society, Ninth Annual Meeting, Austin, Texas
November 8-11, 1967
  A. Bers and S. L. Chou, Instabilities in Plasmas with Thin Electron Beams
MEETING PAPERS PRESENTED (continued)

J. A. Davis, Computer Simulation of Nonlinear Oscillations in a Beam-Plasma System
T. H. Dupree, Nonlinear Theory of Collisional Drift Waves
P. W. Jameson, Ion Cyclotron Resonance Experiment with an m=1 Coil
R. R. Levin and N. L. Oleson, Ion Acoustic Wave Dispersion in a Highly Ionized Argon Plasma in a Magnetic Field
W. Manheimer, Bremsstrahlung at Harmonics of the Electron Plasma Frequency
R. R. Parker and J. A. Mangano, Propagation of Ion Cyclotron Waves in a Beam-Generated Plasma
D. Ross, K. Chung, and D. J. Rose, Decay Process in the Afterglow of Hollow Cathode Discharge Arc Plasma

Department of Engineering and Applied Science Seminar, Yale University, New Haven, Connecticut
November 13, 1967
R. J. Briggs, Critical Lengths for Absolute Instabilities (invited)

74th Meeting, Acoustical Society of America, Miami Beach, Florida
November 13-17, 1967
R. H. Katyl and U. Ingard, Light Scattering from Thermally Excited Surface Waves
N. Y. S. Kiang, E. M. Marr, and D. Demont, Sensitivity of Auditory-Nerve Fibers to Tonal Stimuli
D. H. Klatt, Psychophysical Reality of the Distinctive Features of Phonology
E. C. Moxon and N. Y. S. Kiang, Discharge Rates of Auditory-Nerve Fibers in Response to Electric and Acoustic Stimuli
G. von Bismarck and R. R. Pfeiffer, On the Sound-Pressure Transformation from Free Field to Eardrum of Chinchilla

Physics Colloquium, Tufts University, Medford, Massachusetts
November 17, 1967
C. H. Perry, Optical Phonons in Some Mixed Crystals (invited)

JOURNAL PAPERS 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)

* R. J. Allen, A. H. Barrett, and P. P. Crowther, Observations of the Radio Sources 3C84, 3C273, 3C274, and 3C297 at Short Centimeter Wavelengths (Astrophys. J.)

* J. S. Barlow, Computer Analyses of Clinical Electroencephalographic Ink-Tracings with the Aid of a High-Speed Automatic Curve Reader (IEEE Trans. (BME))

* G. D. Bernard and W. H. Miller, Interference in the Corneas of Dioptera (Investig. Ophthalmol.)

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JOURNAL PAPERS ACCEPTED FOR PUBLICATION (continued)

M. Blum, On the Size of Machines (Inform. Contr.)

J. E. Brown, J. R. Murray, and T. G. Smith, A Photoelectric Potential from Photoreceptor Cells in Ventral Eye of Limulus (Science)

E. W. Browne, Serbo-Croatian Enclitics and Transformational Theory (Zbornik Matice Srpske za filologiju i lingvistiku (Novi Sad, Yugoslavia))

R. W. Cornew, A Statistical Method of Spelling Corrections (Inform. Contr.)


J. R. P. Kiparsky, Sonorant Clusters in Greek (Language)

R. P. Kiparsky, Tense and Mood in Indo-European Syntax (Foundations of Language)

R. P. Kiparsky, A propos de l'histoire de l'accentuation grecque (Langages)

P. A. Kolers, Recognition of Geometrically Transformed Text (Perception and Psychophysics)

P. A. Kolers, Bilingualism and Information Processing (Sci. American)


J. H. B. Lee, Matrix Filtering as an Aid to Numerical Integration (Proc. IEEE)

W. B. Lenoir, Propagation of Partially Polarized Waves in a Slightly Anisotropic Medium (J. Appl. Phys.)

W. B. Lenoir, Microwave Spectrum of Molecular Oxygen in the Mesosphere (J. Geophys. Res.)

W. B. Lenoir, J. W. Barrett, and D. Cosmo Papa, Observations of Microwave Emission by Molecular Oxygen in the Stratosphere (J. Geophys. Res.)

Paula Menyuk, The Role of Distinctive Features in Children's Acquisition of Phonology (J. Speech Hearing Res.)


M. B. Sachs and N. Y. S. Kiang, Two-Tone Inhibition in Auditory-Nerve Fibers (J. Acoust. Soc. Am.)

A. Solbès and J. L. Kerrebrock, Condensation and Electrical Conduction in Metallic Vapors (Phys. Fluids)

D. E. Troxel, Experiments in Tactile and Visual Reading (IEEE Trans. (HFE))
JOURNAL PAPERS ACCEPTED FOR PUBLICATION (continued)


Barbara G. Wickelgren, Habituation of Spinal Interneurons (J. Neurophysiol.)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION


K. Chung and D. J. Rose, Correlation Study of a Drift Wave Instability (Appl. Phys.)

D. D. Collins, Realizable Whitening Filters and State Variable Realizations (Proc. IEEE)


S. Ezekiel and R. Weiss, Laser-Induced Fluorescence in a Molecular Beam of Iodine (Phys. Rev. Letters)

D. O. Ham and J. L. Kinsey, Long-lived Complexes in Molecular Collisions (J. Chem. Phys.)

U. Ingard and M. Schulz, Ion Density and Electric Field Perturbation Caused by an Acoustic Wave Pulse in a Weakly Ionized Gas (Phys. Fluids)


M. Schulz, Possibility of Radiation-Induced Sound Amplification in a Gas (Phys. Fluids)


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)

460 Peter Elias, Networks of Gaussian Channels with Applications to Feedback Systems

464 John S. Richters, Communication over Fading Dispersive Channels
SPECIAL TECHNICAL REPORTS PUBLISHED

(These monographs are available from The M.I.T. Press, E19-734B, Massachusetts Institute of Technology, Cambridge, Massachusetts 02142.)

Number 15  S.-Y. Kuroda, Yawelmani Phonology (M.I.T. Research Monograph No. 43)

SPECIAL PUBLICATIONS

· T. G. Davis, N. E. Tornberg, and C. H. Perry, Optical Phonons in Mixed Sodium Potassium Tantalates (Paper D8, NBS Research Monographs)

· J. Katzenelson, D. S. Evans, and H. B. Lee, A Program for On-line Analysis of Nonlinear Electronic Circuits (1967 IEEE International Convention Record)