MEETING PAPERS PRESENTED

Second International Tutorial on Quantitative Cytochemistry, University of Chicago, Chicago, Illinois
August 4-6, 1968
I. T. Young, Automated Leukocyte Recognition (invited)

WESCON, Los Angeles, California
August 20-23, 1968
A. B. Baggeroer, Optimal Signal Design for Additive Colored Noise Channels via State Variables

Meeting on "Electron Mean-Free Paths in Metals," Eidgenossische Technische Hochschule, Zurich, Switzerland
September 3-5, 1968
S. R. Reznek and M. W. P. Strandberg, Mean-Free Path Determination by Surface Scattering

International Conference on Light Scattering Spectra of Solids, New York University, New York
September 3-6, 1968

23rd Annual Molecular Spectroscopy Symposium, Ohio State University, Columbus, Ohio
September 3-7, 1968
Jeanne H. Fertel, K. Owyang, and C. H. Perry, Observation of Two-Mode Behavior in an Alkali Halide Mixed-Crystal System
R. P. Lowndes, J. F. Parrish, and C. H. Perry, Optical Phonons in Tysonite Rare-Earth Fluorides
J. F. Parrish, R. P. Lowndes, and C. H. Perry, Far Infrared Electronic Transitions in Tysonite Rare-Earth Fluorides
C. H. Perry and N. E. Tornberg, The Temperature-Dependent Phonon Spectrum of PbTiO₃

1968 IEEE International Antennas and Propagation Symposium, Northeastern University, Boston, Massachusetts
September 9-11, 1968
G. Bernard, W. H. Miller, and J. L. Allen, Periodic Structures, Surface Waveguides, and Layered Media in the Eyes of Insects
J. I. Glaser, Excitation of Electromagnetic Modes in Open Resonators
Conference on Numerical Simulation of Plasma, Los Alamos Scientific Laboratory, Los Alamos, New Mexico
September 18-20, 1968
H. M. Schneider and A. Bers, Dynamics of Inhomogeneous Plasmas

The Physical Laboratory Colloquium, State University of New York at Stony Brook, Long Island, New York
October 2, 1968
J. G. King, How to See with Molecules (invited)

2nd Annual Symposium of the American Society for Cybernetics, National Bureau of Standards, Gaithersburg, Maryland
October 23-25, 1968
W. S. McCulloch, Keynote Address: Cybernetics and the Management of Large Systems (invited)

Society of Photographic Scientists and Engineers Symposium on Photo-Electronic Imaging, Washington, D. C.
October 31 - November 2, 1968
T. S. Huang, Photo-Electronic Imaging (invited)

October 31 - November 2, 1968
P. A. Kolers, Sequential Processing of Foresight and Hindsight

NEREM, Boston, Massachusetts
November 6-8, 1968
J. Glaser, Antenna Synthesis for Circular and Elliptical Apertures
D. H. Steinbrecher, Recent Developments in Millimeter-Wave Receiver Technology

Division of Plasma Physics, American Physical Society, Miami Beach, Florida
November 13-16, 1968
W. P. Allis, Nonlinear Collisionless Plasma Waves
R. A. Blanken, Observation of Plasma Effects on Single Electron Synchrotron Emission from a Hot-Electron Plasma
J. F. Clarke and J. E. Robinson, Low-Frequency Fluctuations in the DCX-2
C. T. Dum and T. H. Dupree, Nonlinear Theory of High-Frequency Turbulence in a Magnetic Field
R. W. Flynn and T. H. Dupree, Secular Wave-Particle Velocity Changes and Fourth-Order Diffusion
G. A. Garosi, G. Bekefi, and H. M. Schulz, Particle Loss in a Turbulent, Weakly Ionized Plasma Column
M. Hudis and L. M. Lidsky, Particle Flux Measurements in Dense Plasmas by Directional Langmuir Probes
B. R. Kusse and A. Bers, Interactions of a Plasma with a Spiraling Electron Beam
L. M. Lidsky, M. Hudis, and R. Blanken, Diffusion Coefficient Measurements in a Hollow Cathode Arc Plasma Column

W. M. Manheimer, Weak Turbulence Theory of Velocity Space Diffusion in a Magnetic Field

M. Murakami and L. M. Lidsky, Wave-Particle Interactions in Transverse Electromagnetic Waves in Magnetized Plasma

D. J. Rose, Physics of Fusion Feasibility (invited)

H. M. Schneider and A. Bers, Computer Simulation of Oscillations in Inhomogeneous Media

C. E. Speck and A. Bers, Electromagnetic Instability of a Hot-Electron Plasma Generated by Electron-Cyclotron Resonance

D. W. Swain, Externally Generated Striations in a Low-Pressure Discharge

21st Annual Conference on Engineering in Medicine and Biology, Houston, Texas
November 18-21, 1968

A. N. Chandra, W. D. Jackson, P. G. Katona, and G. O. Barnett, Heart Rate Response to Individual Electric Vagal Impulses

Symposium on Nonlinearities at the Auditory Periphery, Acoustical Society of America Meeting, Cleveland, Ohio
November 19-22, 1968

L. D. Braida, Absolute Identification of Sound Intensity: Dependence of Observer Sensitivity on Range and Number of Stimuli

J. L. Goldstein and N. Y. S. Kiang, Some Nonlinear Phenomena in Recordings from Single Auditory-Nerve Fibers (invited)

Physics Colloquium, Wayne State University, Detroit, Michigan
November 21, 1968

M. W. P. Strandberg, Surface Magneto-Resistance of Metals at Low Temperatures (invited)

American Physical Society Meeting, Miami Beach, Florida
November 25-27, 1968

R. P. Lowndes, J. F. Parrish, and C. H. Perry, Optical Phonons in Tysonite Rare-Earth Fluorides

J. F. Parrish, R. P. Lowndes, and C. H. Perry, Far Infrared Electronic Transitions in Tysonite Rare-Earth Fluorides


N. E. Tornberg and C. H. Perry, The Temperature-Dependent Phonon Spectrum of PbTiO₃
JOURNAL PAPERS ACCEPTED FOR PUBLICATION

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

- J. S. Barlow, Intrinsic and Induced EEG Rhythms in Severe Hypothyroidism Secondary
to Panhypopituitarism: A Case Report (EEG Clin. Neurophysiol.)

- B. Blesser and A. R. Kent, Analysis of a Feedback-Controlled Limiter Using a
  Logarithmic Measuring Scale (IEE Trans. (AU))


- C. B. Friedberg and M. W. P. Strandberg, Microwave Magnetoresistance
  Measurements (J. Appl. Phys.)

- E. P. Gyftopoulos and G. N. Hatsopoulos, Quantum-Thermodynamic Definition

- M. Halle, Zirmunskij's Theory of Verse: A Review Article (Slavic and East
  European Journal)

- G. Hornbuckle and R. Spann, Diagnosis of Single Gate Failures in Combinational
  Circuits (IEE Trans. on Computers)

- F. J. Kerr, B. F. Burke, E. C. Reifenstein III, T. L. Wilson, and P. G. Mezger,
  A Direct Comparison of Motions of Neutral and Ionized Hydrogen in the Galaxy
  (Nature)

- J. L. Kinsey, J. W. Riehl, and J. S. Waugh, Molecular Reorientation in Collisions
  between an Atom and a Diatomic Molecule (J. Chem. Phys.)

- S. G. Kukolich, Measurement of Hyperfine Structure in NH₂D (J. Chem. Phys.)

- Sara E. Law and D. H. Staelin, Measurements of Venus and Jupiter near 1-cm
  Wavelength (Astrophys. J.)

- W. M. Manheimer and T. H. Dupree, Weak Turbulence Theory of Velocity Space
  Diffusion and the Nonlinear Landau Damping of Waves (Phys. Fluids)

- J. Nolte, J. E. Brown, and T. G. Smith, Jr., A Hyperpolarizing Component of the
  Receptor Potential in the Median Ocellus of Limulus (Science)

- R. R. Parker, Normal Modes in RLC Networks (Proc. IEEE)

  Relaxation and the Anisotropic Part of the He - H₂ Intermolecular Potential
  (J. Chem. Phys.)

- W. J. Wilson and A. H. Barrett, Discovery of OH Radio Emission from the
  Infrared Star NML Cygni (Abstract) (Astron. J.)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- G. L. Rogoff, Optical System for Spatial Discrimination of Radiation from Extended
  Bodies (Appl. Opt.)

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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)

467 Norman E. Gaut, Studies of Atmospheric Water Vapor by Means of Passive Microwave Techniques

468 Jane Win-Shih Liu, Reliability of Quantum-Mechanical Communication Systems

SPECIAL PUBLICATIONS


J. W. Gadzuk, Theory of Metallic Adsorption on Real Metal Surfaces (Proc. Fourth International Materials Symposium, University of California, Berkeley, June 17, 1968)


