

PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

Drexel University, Philadelphia, Pennsylvania

March 4, 1971

U. Ingard, Light Scattering from Ripplons on Liquid Surfaces (invited)

Pennsylvania State University, State College, Pennsylvania

March 15, 1971

U. Ingard, Absorption of High-Intensity Sound (invited)

Physical Electronics Conference, National Bureau of Standards, Gaithersburg
Maryland

March 15-17, 1971

A. E. Dabiri, T. L. Bradley, T. E. Kenney, and R. E. Stickney, Measurements
of the Spatial and Speed Distributions of H_2 and D_2 Desorbed from Ni Crystals

Department of Mathematics, Boston University, Boston, Massachusetts

March 17, 1971

W. M. Siebert, Some Applications of Random Processes in Neurophysiology
(invited)

Sherwood Theoretical Meeting, New York

March 22-23, 1971

R. Gajewski, MHD Equilibrium of an Elliptical Plasma Cylinder

1971 IEEE International Convention and Exposition, New York

March 22-25, 1971

D. H. Steinbrecher, Low-Noise Mixers

O. J. Tretiak, Data Compressibility : An Overview

Greater Boston Chapter, Acoustical Society of America, Boston, Massachusetts

March 23, 1971

J. L. Goldstein, Subjective Tones Unraveled : The Distinction between Aural
Combination Tones and Pitch of the Missing Fundamental (invited)

Fifth Annual Princeton Conference on Information Sciences and Systems, Princeton
University

March 25-26, 1971

E. Hofstetter, A. Oppenheim, and J. Siegel, A New Technique for the Design
of Non-recursive Digital Filters

134th Meeting, American Astronomical Society, Louisiana State University, Baton
Rouge, Louisiana

March 29 - April 1, 1971

K. J. Johnston, S. H. Knowles, W. T. Sullivan III, J. M. Moran, B. F. Burke,
K. Y. Lo, D. C. Papa, G. D. Papadopoulos, P. R. Schwartz, C. A. Knight,
I. I. Shapiro, and W. J. Welch, H_2O Line Emission from Orion A, VY CMa,
and W49

MEETING PAPERS PRESENTED (continued)

Conference on Statistical Mechanics, International Union of Pure and Applied Physics, University of Chicago, Chicago, Illinois

March 30, 1971

W. M. Siebert, Session on Neural Networks (Discussion Chairman)

Society for Research in Child Development Meeting, Minneapolis, Minnesota

April 1-4, 1971

Mary C. Bateson, The Epigenesis of Conversational Interaction

Symposium on Opportunities in Biomedical Engineering Training, Biomedical Engineering Society, Chicago, Illinois

April 13, 1971

W. M. Siebert, Biomedical Engineering Training (invited)

Eastern Psychological Association Meeting, New York

April 15-17, 1971

R. D. Hall, Some Properties of Eyelid Responses in the Albino Rat

Eighty-first Meeting, Acoustical Society of America, Washington, D.C.

April 20-23, 1971

W. L. Henke, Two-Dimensional Notations for the Specification of Sound and Music Synthesis

U. Ingard, Physical Principles of Noise Control (invited)

K. N. Stevens, Aerodynamic and Acoustic Events at the Release of Stop and Fricative Consonants

K. N. Stevens and D. H. Klatt, The Role of Formant Transitions in the Voice-Voiceless Distinctions for Stops

V. Zue, D. Johnson, and A. Oppenheim, Translation of Divers' Speech Using Digital Frequency Warping

Seventh International Symposium on Remote Sensing of Environment, University of Michigan, Ann Arbor, Michigan

May 17-21, 1971

P. W. Rosenkranz, D. H. Staelin, F. T. Barath, J. C. Blinn III, and E. J. Johnston, Indirect Sensing of Atmospheric Temperature and Water Vapor Using Microwaves

J. W. Waters, Ground-Based Sensing of Temperatures in the Stratosphere and Lower Mesosphere

Tennessee Technological University, Cookeville, Tennessee

May 24, 1971

U. Ingard, Noise Control, A Timely Challenge for Acousticians (invited)

University of Tennessee, Knoxville, Tennessee

May 25, 1971

U. Ingard, Noise Control, A Timely Challenge for Acousticians (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)

- J. C. Batty and R. E. Stickney, Quasi-Equilibrium Treatment of Gas-Solid Reactions.
III. Rate of Volatilization of Tungsten by High-Temperature Oxidation
(Oxidation of Metals)
- B. Blesser, From the Abstract to the Practical : Teaching a Project Laboratory
(IEEE (Educ.))
- T. B. Brazelton, Grace C. Young, and Margaret Bullowa, Inception and Resolution
of Early Developmental Pathology; A Case History (J. Am. Acad. Child
Psychiatry)
- A. J. Cohen and G. Bekefi, Linear and Nonlinear Response of a Plasma Sheath to
R.F. Potentials (Phys. Fluids)
- G. Fiocco and G. Grams, On the Origin of Noctilucent Clouds : Extraterrestrial Dust
and Trapped Water Molecules (J. Atmos. Terrestr. Phys.)
- C. Jones, J. Nolte, and J. E. Brown, The Anatomy of the Median Ocellus of Limulus
(Z. Zellforsch.)
- J. J. Katz, Generative Semantics is Interpretative Semantics (Linguistic Inquiry)
- J. A. Kong, Reflection and Transmission of Electromagnetic Waves by Stratified
Moving Media (Can. J. Phys.)
- R. W. Moir and L. M. Lidsky, Diffusion Resulting from Nonadiabatic Scattering
on a Helically Perturbed Field in a Torus (Plasma Phys.)
- E. Peper, Comment on Feedback Training of Parietal-Occipital Alpha Asymmetry
in Normal Human Subjects (Kybernetik)
- Emily Pope, Answers to Yes-No Questions (Linguistic Inquiry)
- H. S. Sohmer, W. T. Peake, and T. F. Weiss, Intracochlear Potential Recorded
with Micropipettes I. Correlations with Micropipette Location (J. Acoust.
Soc. Am.)
- K. N. Stevens, Airflow and Turbulence Noise for Fricative and Stop Consonants :
Static Considerations (J. Acoust. Soc. Am.)
- T. F. Weiss, W. T. Peake, and H. S. Sohmer, Intracochlear Potential Recorded
with Micropipettes II. Responses in the Cochlear Scalae to Tones (J. Acoust.
Soc. Am.)
- T. F. Weiss, W. T. Peake, and H. S. Sohmer, Intracochlear Potential Recorded
with Micropipettes III. Relation of Cochlear Microphonic Potential to Stapes
Velocity (J. Acoust. Soc. Am.)
- B. L. Wright and G. Bekefi, Radiation Temperature of a Bounded, Nonthermal
Plasma. I. Theory (Phys. Fluids)
- B. L. Wright and G. Bekefi, Radiation Temperature of a Bounded, Nonthermal
Plasma. II. Experiment (Phys. Fluids)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- E. Argyle, W. C. Johnson, W. H. Eggimann, and P. Penfield, Jr., Comments on "Unresolved Paradox in Circuit Theory" (Proc. IEEE)
- T. R. Brown and J. G. King, Atomic-Beam Observations of the Magnetic Field Outside a Type II Superconductor (Phys. Rev. Letters)
- B. Coppi, M. Dobrowolny, and F. Santini, High-Frequency Instability and Anomalous Plasma Resistivity at Supercritical Electric Fields (Phys. Letters (A))
- B. Coppi and A. Treves, Plasma Model for Thermal X-ray Sources (Astrophys. J. Letters)
- T. H. Dupree, Theory of Resistivity in Collisionless Plasma (Phys. Rev. Letters)
- K. J. Johnston, S. H. Knowles, W. T. Sullivan III, J. M. Moran, B. F. Burke, K. Y. Lo, D. C. Papa, G. D. Papadopoulos, P. R. Schwartz, C. A. Knight, I. I. Shapiro, and W. J. Welch, An Interferometer Map of the Water-Vapor Sources in W49 (Astrophys. J. Letters)
- D. E. Oates and J. G. King, Measurement of Helium-Helium Scattering Cross Section at Low Temperatures (Phys. Rev. Letters)
- L. D. Pleasance and E. V. George, Electron Density in Ion-Laser Discharges (Appl. Phys. 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, Massachusetts 02139)

- 479 Thomas P. Barnwell III, An Algorithm for Segment Durations in a Reading Machine Context

SPECIAL TECHNICAL REPORTS PUBLISHED

- Number 17 John H. Hewitt and Helen L. Thomas, Publications—Research Laboratory of Electronics, 1966-1971

SPECIAL PUBLICATIONS

- J. L. Goldstein, Aural Combination Tones, in R. Plomp and G. F. Smoorenburg (Eds.), Frequency Analysis and Periodicity Detection in Hearing (Sijthoff, Leiden, The Netherlands, 1971), pp. 230-247
- M. Halle, A Minor Accentual Rule of Contemporary Standard Russian, in L. L. Hammerich and R. Jakobson (Eds.), Form and Substance (Akademisk Forlag, Copenhagen, 1971), pp. 211-217
- W. R. Leben, The Morphophonemics of Tone in Hausa, in Chin-Wu Kim and Herbert Stahlke (Eds.), Papers in African Linguistics (Linguistic Research, Inc., Edmonton, Alberta, Canada, 1971), pp. 201-218
- Paula Menyuk, Language Theories and Educational Practice, in Frederick Williams (Ed.), Language and Poverty: Perspective on a Theme (Chicago: Markham, 1971), pp. 190-211

SPECIAL PUBLICATIONS (continued)

- W. M. Siebert, Some Applications of Random Processes in Neurophysiology, in Mathematical Aspects of Life Sciences, Queen's Papers in Pure and Applied Mathematics No. 26 (Queen's University, Kingston, Ontario, Canada, 1971), pp. 146-172
- K. N. Stevens, Perception of Phonetic Segments : Evidence from Phonology Acoustics and Psychoacoustics, in David L. Horton (Ed.), Perception of Language, Part II, Proc. Symposium of the Learning Research and Development Center, University of Pittsburgh Summary Report, 1969 (Charles E. Merrill, Publishers, Columbus, Ohio, 1971), pp. 216-235
- D. H. Steinbrecher, Low-Noise Microwave Mixers, Paper 4CJ.3, 1971 IEEE International Convention Digest, Synopses of papers presented at the IEEE International Convention, March 22-25, 1971, New York, pp. 518-519
- O. J. Tretiak, Data Compressibility : An Overview, Paper 7A.1, 1971 IEEE International Convention Digest, Synopses of papers presented at the IEEE International Convention, March 22-25, 1971, New York, pp. 328-329
- R. N. Wallace and A. Bers, Microwave Emission from n-InSb at 77°K (Proc. Tenth International Conference on the Physics of Semiconductors, Cambridge, Mass., August 17-21, 1970, edited by Seymour P. Keller, John C. Hensel, and Frank Stern), pp. 375-380
- P. A. Kolers, Eye-Voice Span or Response Bias ?, in David L. Horton and James J. Jenkins (Eds.), The Perception of Language (Charles E. Merrill Publishing Company, Columbus, Ohio, 1971), pp. 17-22