

## PUBLICATIONS AND REPORTS

### MEETING PAPERS PRESENTED

133rd Meeting, American Astronomical Society, University of South Florida, Tampa, Florida

December 6-9, 1970

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, Map of H<sub>2</sub>O Emission Source in W49

1970 IEEE Symposium on Adaptive Processes "Decision and Control," Austin, Texas

December 7-9, 1971

M. E. Hellman, The Effects of Randomization on Finite Memory Decision Schemes

1970 IEEE International Symposium on Circuit Theory, Atlanta, Georgia

December 14-16, 1970

A. V. Oppenheim, Digital Signal Processing, Today and Tomorrow

Arden House Workshop on Noise Control Engineering, Arden House, Harriman, New York

January 10-13, 1971

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

McMaster's University, Hamilton, Ontario, Canada

January 25, 1971

W. M. Siebert, Signals and Noise in the Auditory System (invited)

American Physical Society Meeting, New York

February 1-4, 1971

J. R. Brown and J. G. King, Observations of the Vortex State in Superconductors by Means of an Atomic Beam

B. Coppi, R. Y. Dagazian, and J. P. Goedbloed, Magnetic Confinement Configuration for High Current Density Plasma

Seventh All-Union Conference on Acoustics, Leningrad Shipbuilding Institute, Leningrad, U.S.S.R.

February 1-6, 1971

U. Ingard, Light Scattering from Thermal Surface Waves on Liquids (invited)

Washington University and Central Institute for the Deaf, St. Louis, Missouri

February 11, 1971

W. M. Siebert, Some Network Theorems Related to Aural Mechanics (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)

- A. E. Dabiri, T. J. Lee, and R. E. Stickney, Spatial and Speed Distributions of  $H_2$  and  $D_2$  Desorbed from a Polycrystalline Nickel Surface (Surface Sci.)
- M. Halle, Remarks on Slavic Accentology (Linguistic Inquiry)
- U. Ingard and D. C. Galehouse, Demonstration of the Second-Order Pressure Distribution in an Acoustic Normal Mode (Am. J. Phys.)
- Y. Y. Lau and R. J. Briggs, Effects of Cold Plasma on the Negative Mass Instability of a Relativistic Electron Layer (Phys. Fluids)
- G. F. Mazenko, A Microscopic Method for Calculating Memory Functions in Transport Theory (Phys. Rev. (A))

## LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- R. Boscaino, I. Ciccarello, C. Cusumano, and M. W. P. Strandberg, Nonlinear Effects in Paramagnetic Systems and the Measurement of  $T_2$  (Phys. Letters)
- B. Coppi Linear Mechanism for Thermal Energy Transport in Current-Carrying Plasmas (Phys. Rev. Letters)
- U. Ingard, Erratum : Nonlinear Distortion of Sound Transmitted through an Orifice : J. Acoust. Soc. Am. 48, 32-33, July 1970 (J. Acoust. Soc. Am.)
- J. A. Kong, Image Theory for Bianisotropic Media (IEEE Trans. (AP))
- C. Krischer and A. Bers, Observed Interaction of Acoustic and Electron Surface Waves in a Magnetic Field (Appl. Phys. Letters)
- B. Kusse and A. Bers, Errata : Interactions of a Plasma with a Spiraling Electron Beam [Phys. Fluids 13, 2372 (1970)] (Phys. Fluids)
- A. Oppenheim, D. Johnson, and K. Steiglitz, Computation of Spectra with Unequal Resolution Using the Fast Fourier Transform (Proc. IEEE)
- H. P. Yuen, R. S. Kennedy, and M. Lax, On Optimal Quantum Receivers for Digital Signal Detection (Proc. IEEE)

## SPECIAL PUBLICATIONS

- A. Bers and S. R. J. Brueck, Interactions of Acoustic Waves with Electrons in Applied Electric and Magnetic Fields (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. 129-133)
- B. Coppi and A. Friedland, Magnetic Energy Conversion Processes and Solar Flares (IC/70/151, International Centre for Theoretical Physics, Miramare-Trieste, September 1970)
- M. S. Ewing, R. A. Batchelor, R. Friefeld, R. M. Price, and D. H. Staelin, Observations of Pulsar Spectra, in Davies and Smith (eds.), The Crab Nebula (D. Reidel Publishing Company, Dordrecht - Holland, 1971), pp. 192-197

SPECIAL PUBLICATIONS (continued)

- M. Halle, Frontiers of Linguistic Theory, in Linguistics in the 1970's (Center for Applied Linguistics, Washington, D.C., 1970), pp. 29-40
- M. Halle, On Meter and Prosody, in M. Bierwisch and K. E. Heidolph (eds.), Progress in Linguistics: A Collection of Papers (Mouton and Co., The Hague, 1970, pp. 64-80)
- M. E. Hellman, The Effects of Randomization on Finite Memory Decision Schemes (1970 IEEE Symposium on Adaptive Processes, Austin, Texas, December 7-9, 1970, pp. III. 2. 1 - III. 2. 4)
- G. D. Papadopoulos and B. F. Burke, A Ku-band Interferometer with Digital Real-Time Data Analysis (Abstract) (Bull. Am. Astron. Soc., Vol. 2, No. 4)
- O. J. Tretiak and T. S. Huang, Separable-Sum Approximation of Two-Dimensional Digital Filters (Proc. UMR-Mervin J. Kelly Communication Conference, University of Missouri, Rolla, Missouri, October 5-7, 1970, pp. 10-3-1-10-3-3)
- O. J. Tretiak and C. L. Seitz, Microscopy with Computer Graphics (Proc. VII National Biomedical Sciences Instrumentation Symposium, "Imagery in Medicine," University of Michigan, Ann Arbor, Michigan, May 19-21, 1969), pp. 10-3-1 - 10-3-3