

## Contributors to This Issue

MORGAN M. BUCHNER, JR., B.E.S., 1961, Ph.D., 1965, Johns Hopkins University; U. S. Army active duty, 1966-1968; Bell Telephone Laboratories, 1965-66 and 1968—. Mr. Buchner has been interested in the design and performance of data transmission systems. He is presently a supervisor in the Traffic Research Department. Member, IEEE, Tau Beta Pi, Sigma Xi, Eta Kappa Nu.

ROBERT B. COOPER, B.S., 1961, Stevens Institute of Technology; M.S., 1962, and Ph.D., 1968, University of Pennsylvania; Bell Telephone Laboratories, 1961-1969; Georgia Institute of Technology, 1969—. At Bell Labs, Mr. Cooper worked on a variety of problems concerned with applications of probability theory to the analysis of telephone systems and taught the GSP course, Probability Applied to Traffic Engineering. As Associate Professor of Industrial and Systems Engineering at Georgia Tech, he teaches courses in probability, statistics, and queuing theory. He is writing a textbook in queuing theory.

WILLIAM H. IERLEY, B.A., 1959, Drew University; M.S., 1967, N.Y.U.; Bell Telephone Laboratories, 1966—. As a resident visitor at Bell Laboratories from 1964 to 1966, Mr. Ierley worked on various phases of the Nike-X program. He has since been engaged in applications of computer technology to electromagnetic research, emphasizing computer graphics.

NUGGEHALLY S. JAYANT, B.Sc., 1962, University of Mysore (India); B.E. (Dist.), (1965), Ph.D. (1970), Indian Institute of Science, Bangalore; Research Associate (1967-68), Stanford Electronics Laboratories; Bell Telephone Laboratories, October 1968—. Mr. Jayant has worked on digital communication in the presence of burst-noise, and on the detection of fading signals. He is currently conducting research in the encoding of speech and video signals. Member, IEEE, Sigma Xi.

ERNST LUEDER, Dipl.-Ing., 1958; Dr.-Ing., 1962; Habilitation, 1967, University of Stuttgart (Germany); Bell Telephone Laboratories, 1968—. At Stuttgart Mr. Lueder was engaged in network synthesis, theory of nonlinear and electromechanical circuits and system theory.

Since joining Bell Laboratories he has specialized in design of RC-active filters. Member, German associations of Engineers VDE and NTG.

J. A. SEMAN, Graduate, 1968, RCA Institutes; Bell Telephone Laboratories, 1968—. Mr. Seman is engaged in measurements of the bulk properties of optoelectronic materials. His current work involves infrared absorption studies of Gallium Phosphide.

EDWARD A. WALVICK, B.E., 1964, Cooper Union; M.S. (E.E.), 1966, Ph.D. (E.E.), 1969, Polytechnic Institute of Brooklyn; Bell Telephone Laboratories, 1968—. Mr. Walvick has been concerned with problems relating to the exchange cable networks, including methods of determining and specifying their quality. Member, IEEE, Eta Kappa Nu, Tau Beta Pi.

GREGORY H. WANNIER, Louvain University, 1930-31; University of Cambridge, 1933-34; Ph.D., University of Basel, 1935. Assistant, University of Geneva, 1935-36; Swiss-American Exchange Fellow, Princeton University, 1936-37; instructor, University of Pittsburgh, 1937-38; assistant lecturer, Bristol University, 1938-39; instructor, University of Texas, 1939-41; University of Iowa, 1941-46; Socony-Vacuum Laboratories, 1946-49; Bell Telephone Laboratories, 1949-60; Professor of Physics, University of Oregon, 1961—. In the Physical Research Department at Bell Labs, Mr. Wannier worked on electron motion and related solid state phenomena, and the motion of ions in gases. Member, American Physical Society, Swiss Physical Society.

J. D. WILEY, B.S., 1964, Indiana University; M.S., 1965, University of Wisconsin; Ph.D., 1968, University of Wisconsin; Bell Telephone Laboratories, 1968—. Mr. Wiley is engaged in studies of the optical and transport properties of semiconductors. Current work involves infrared absorption studies of defects in Gallium Phosphide. Member, APS.

H. ZUCKER, Dipl. Ing., 1950, Technische Hochschule, Munich, Germany; M.S.E.E., 1954, Ph.D., 1959, Illinois Institute of Technology; Bell Telephone Laboratories, 1964—. Mr. Zucker has been concerned with satellite communication antennas, optical resonators and problems related to physical and geometrical optics. Member, IEEE, Eta Kappa Nu, Sigma Xi.