Contributors to This Issue

A. S. Acampora, B.S., 1968, M.S., 1970, Polytechnic Institute of Brooklyn; Bell Laboratories, 1968—. Mr. Acampora has been concerned with the design of high-power microwave systems and components for use in modern-phased array radars, and has also conducted data processing and reliability studies as they apply to military radar systems. He is presently investigating the role of collective effects in gas laser operation. Member, Eta Kappa Nu.

Milton Baumwolspiner, B.S.E.E., 1969, Polytechnic Institute of Brooklyn; M.S.E.E., 1970, Columbia University; Bell Laboratories, 1969—. Mr. Baumwolspiner has been engaged in the development of active, and more recently, digital filters. Presently, he is a member of the Logic Circuits Task Force which is involved in the development of all the services needed to provide custom MSI integrated circuits with universal gate arrays.

Robert W. Chang, B.S.E.E., 1955, National Taiwan University; M.S.E.E., 1960, North Carolina State University; Ph.D., 1965, Purdue University; Bendix Corporation, 1960–1963; Bell Laboratories, 1965—. Mr. Chang has worked on a variety of problems in data transmission and communication system theory. Member, Phi Kappa Phi, Eta Kappa Nu, Sigma Xi, IEEE.

William J. DeBonte, S.B. (Physics), 1965, Massachusetts Institute of Technology; M.S. (Physics), 1966, and Ph.D. (Physics), 1970, University of Pennsylvania; Bell Laboratories 1970—. Since coming to Bell Laboratories, Mr. DeBonte has been engaged in studies of models of domain structures applicable to magnetic bubble technology. Member, American Physical Society and Sigma Xi.

L. W. Fagel, B.S. (Mechanical Eng.), 1959, Stevens Institute of Technology; M.S., 1961, New York University; Bell Laboratories, 1959—. Mr. Fagel has done research in applied mechanics and structural

dynamics, and design and development work in conjunction with providing protection for Bell System building and antenna structures from nuclear explosion and earthquake excitations.

JEREMIAH F. HAYES, B.E.E., 1956, Manhattan College; M.S., 1961, New York University; Ph.D., 1966, University of California, Berkeley; Faculty, Purdue University, 1966–1969; Bell Laboratories, 1969—. Mr. Hayes is currently working on the modeling of computer communications networks. Member, IEEE, Sigma Xi, Eta Kappa Nu.

E. Y. Ho, B.S.E.E., 1964, National Taiwan University; Ph.D., 1969, University of Pennsylvania; Bell Laboratories, 1969—. Mr. Ho has been engaged in developing and analyzing automatic equalizers for data transmission systems. Member, IEEE.

S. C. LIU, B.S. (C.E.), 1960, National Taiwan University; M.S., 1964, and Ph.D., 1967, University of California at Berkeley; Bell Laboratories 1967—. Mr. Liu has done research in structural dynamics, random vibrations, and earthquake engineering. Recently he has been concerned with structural optimization problems. Member, American Society of Civil Engineers, Seismological Society of America.

DAVID N. SHERMAN, B.S.E.E., 1963, Polytechnic Institute of Brooklyn; M.S.E.E., 1964, and Ph.D., 1968, University of Southern California; Bell Laboratories, 1969—. Mr. Sherman's interests have been in the areas of data insertion in speech and the analysis of computer communications networks. He is currently involved in the design of FSK data modems. Member, Eta Kappa Nu and Tau Beta Pi.

P. T. SPROUL, B.S., 1937, E.E., 1955, Iowa State University; Bell Laboratories, 1937—. Mr. Sproul has been concerned with telephone and television transmission, radar relay systems and radar designs. He was responsible for design of the microwave portions of a modern-phased array radar including the high-power transmitter when the work was performed. He is currently in charge of digital design and software/digital tests of the same radar equipment. Senior Member IEEE, Member Eta Kappa Nu.