

Contributors to This Issue

RICHARD R. ANDERSON, B.S.M.E., 1949, Northwestern University; M.S.E.E., 1960, Stevens Institute of Technology; Bell Telephone Laboratories, 1949—. Mr. Anderson first engaged in research on electronic switching systems for telephone central offices. In 1956 he joined the data transmission exploratory development dept., and made several prototype magnetic-tape transports for storing digital data. He has recently conducted theoretical studies of data transmission systems by computer simulation. Member, AAAS, Sigma Xi and Tau Beta Pi.

WILLIAM R. BENNETT, B.S. in E.E., 1925, Oregon State University; M.A. in Physics, 1928, Ph.D., 1949, Columbia University; Bell Telephone Laboratories, 1925—. His early work was concerned with low-frequency transmission over wires and cables. He later became associated with the first coaxial carrier project and made basic studies on noise and distortion in broadband amplifiers. Time division multiplex and pulse code modulation were areas of subsequent major interest. He is now head of the data theory department in the data communications development laboratory. Fellow, IEEE; Member, American Physical Society, U.R.S.I., Sigma Xi, Tau Beta Pi and Eta Kappa Nu.

PAUL T. BRADY, B.E.E., 1958, Rensselaer Polytechnic Institute; M.S.E.E., 1960, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1961—. His work in human factors engineering has been concerned with studies of speech and voice-operated devices, especially as applied to satellite communication circuits.

JAMES A. COCHRAN, B.S., 1956, M.S., 1957 and Ph.D., 1962 Stanford University; research mathematician Stanford Research Institute 1955–1958; research and teaching assistant Stanford University 1958–1961; Bell Telephone Laboratories 1962—. A member of the military research laboratory, he has been particularly concerned with antenna analysis and design and with various mathematical problems associated with the application of electromagnetic theory to microwave systems. Member, American Mathematical Society, Phi Beta Kappa and Sigma Xi.

JAMES R. DAVEY, B.S. in E.E., 1936, University of Michigan; Bell Telephone Laboratories, 1936—. He has been engaged in the design of telegraph and data transmission circuits for the following types of system; dc telegraph, multichannel AM and PM carrier telegraph, telegraph test and service boards, HF radio teletypewriter and a VHF ground-to-air data link. For the past several years he has been in charge of a department responsible for the development of various data terminals for use over telephone voice channels. Member, IEEE, Sigma Xi and Tau Beta Pi.

CHARLES A. DESOER, Sc.D., 1953, Massachusetts Institute of Technology; Bell Telephone Laboratories 1953–1958; University of California, Berkeley, 1958—. The academic year 1963–1964 was spent at Bell Telephone Laboratories. He has been concerned with the analysis and optimization of communication circuits, and the stability of control systems. He is the coauthor, with L. A. Zadeh, of the book *Linear System Theory*.

EDWIN O. ELLIOTT, A.B., 1949, M.A. 1951, Ph.D., 1959, University of California, Berkeley; Operations Evaluation Group of M.I.T., 1954–1958; Stanford Research Institute, 1958–1959; Assistant Professor of Mathematics, University of Nevada, Reno, 1959–1960; Bell Telephone Laboratories, 1960—. At Bell Laboratories he has been engaged in mathematical analysis of error-control methods for digital data communication systems and in the application of measure-theoretic techniques in the study of stochastic processes. He has also worked on problems in the congestion theory of traffic. Member, American Mathematical Society, Operations Research Society of America, Pi Mu Epsilon, Sigma Xi and Phi Beta Kappa.

JACOB KATZENELSON, B.Sc., 1957, and M.Sc., 1959, Technion, Israel Institute of Technology; Sc.D., 1962, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1962–September, 1964. He was engaged in studies of nonlinear networks and simulation of electronic circuits on digital computers. Mr. Katzenelson is now with the Electronic Systems Laboratory and Project Mac at M.I.T. Member, IEEE, Tau Beta Pi and Sigma Xi.

SAMUEL P. MORGAN, B.S., 1943, M.S., 1944, and Ph.D., 1947, California Institute of Technology; Bell Telephone Laboratories, 1947—. A research mathematician, Mr. Morgan has been particularly con-

cerned with the applications of electromagnetic theory to microwave and other problems. As Head, Mathematical Physics Department, he now supervises a research group in various fields of mathematical physics. Fellow, IEEE; member, American Physical Society, SIAM, Sigma Xi, Tau Beta Pi and AAAS.

J. SALZ, B.S.E.E., 1955, M.S.E., 1956, Ph.D., 1961, University of Florida; The Martin Company, 1958-1960; Bell Telephone Laboratories, 1961—. He first worked on the remote line concentrators for the electronic switching system. He has since engaged in theoretical studies of data transmission systems. Member, IEEE; associate member, Sigma Xi.

ER-YUNG YU, B. S., 1948, National Chiao-Tung University (China); M.S. 1957, Washington University; Ph.D. (Engineering Mechanics), 1960, Stanford University; Bell Telephone Laboratories, 1960—. Mr. Yu has been engaged in mechanics studies in problems of passive attitude control of satellites. He also participated in the Telstar satellite dynamics analysis and precession damper design. At present, he is working on the design of a feedback control system for laser frequency stabilization and on problems concerning the mechanical applications of lasers. Member, Sigma Xi and AIAA.

