

Contributors to This Issue

W. E. BALLENTINE studied at Rutgers University and Polytechnic Institute of Brooklyn, and joined Bell Telephone Laboratories in 1954. At Bell Laboratories he has worked on the development of transistor circuits for analog-to-digital converters and on high-speed pulse systems, and has also engaged in the development of a solid-state microwave receiver. More recently he was concerned with the design of the 90-mc IF amplifier used in the experimental Telstar satellite.

L. RAY BOWYER, B.S., 1957, Colorado University; M.E.E., 1959, New York University; Bell Telephone Laboratories, 1957—. Mr. Bowyer was first engaged in work on data processing. Later he worked on automatic data subsets for air line communications. He also was engaged in systems engineering for a communication system for wide-area data service. At present he is in charge of a group responsible for the design of portions of the B1 data trunking system for wide-area data service. Member I.R.E., Tau Beta Pi, Eta Kappa Nu, Sigma Tau.

ROSEMARY GEYNET, A.B., 1947, Pennsylvania State University; Bell Telephone Laboratories, 1953—. Miss Geynet's work has included carrying out computer logic circuit analyses and writing various circuit design programs. At present she is engaged in the solution of various analyses, particularly problems requiring special programming techniques for digital solutions.

RICHARD J. GROSH, B.S., 1950, M.S., 1952, Ph.D., 1953, Purdue University; Head of School of Mechanical Engineering, Purdue University; Bell Telephone Laboratories consultant, 1958—. Mr. Grosh has been engaged in a variety of thermal radiation problems at both high and low temperatures. Sigma Xi Research Society, Pi Tau Sigma, Tau Beta Pi.

WILBUR H. HIGHLEYMAN, B.E.E., 1955, Rensselaer Polytechnic Institute; M.S., 1957, Massachusetts Institute of Technology; D.E.E., 1961, Polytechnic Institute of Brooklyn; Bell Telephone Laboratories, 1958-1962; Data Trends, 1962—. At the Laboratories he first engaged

in the problem of character recognition. More recently, he was concerned with the development of data communication equipment and the study of new devices and techniques for data communication problems. He presently serves as a lecturer at the Polytechnic Institute of Brooklyn. Member Tau Beta Pi, Eta Kappa Nu, Sigma Xi, I.R.E.

VERNON EMERSON HOLT, B.S., 1951, M.S., 1958, and Ph.D., 1960, South Dakota School of Mines, North Carolina State College, and Purdue University; Bell Telephone Laboratories, 1961—. Mr. Holt has been engaged in the development of thin film superconductors for use in high-speed computer circuitry. This work involves low-temperature physics at liquid helium temperatures. Sigma Xi Research Society, Sigma Tau, Pi Tau Sigma, Phi Kappa Phi.

JAY CHIEN-HWAI HSU, B.E.E., 1957, M.E.E., 1958, Ph.D., 1961, Cornell University; Bell Telephone Laboratories, 1961—. Mr. Hsu has been working on a research project on digital-computer controlled systems and is at present also involved with satellite attitude control problems. Member I.R.E., Sigma Xi.

JOHN T. KENNEDY, B.E. in Electrical Engineering, 1949, Yale University. While with the Western Electric Company from 1950–1960 he worked at Bell Telephone Laboratories and with various Air Force wings in bombing-navigational radar system development. In 1960 he joined the staff of Bell Telephone Laboratories, where he has been engaged in development of command radio-guidance systems.

B. K. KINARIWALA, B.S., 1951, Benares University (India); M.S., 1954, and Ph.D., 1957, University of California; Bell Telephone Laboratories, 1957—. He was first engaged in research in circuit theory involving, in particular, active and time-varying networks. More recently, he has been concerned with problems in digital communication systems. Member I.R.E., Sigma Xi.

E. J. McCLUSKEY, JR., A.B., 1953, Bowdoin College; B.S., 1953, M.S., 1953, and Sc.D., 1956, Massachusetts Institute of Technology; Bell Telephone Laboratories 1955–1959. At Bell Laboratories Mr. McCluskey was engaged in research and consulting in connection with the design of electronic central offices. Member I.R.E., Association for Computing Machinery, Associate Editor, I.R.E. Transactions on Electronic Computers. Presently at Princeton University as Associate

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SPENCER W. ROBERTS, B.S.E. (E.E.) and B.S.E. (Mathematics), 1947, M.S., 1948, University of Michigan; Bell Telephone Laboratories, 1952—. Mr. Roberts is engaged in studies of statistical aspects of quality assurance. Member American Statistical Association, Institute of Mathematical Statistics, Tau Beta Pi, Sigma Xi, Phi Kappa Phi.

J. W. ROSSON, B.S.E.E., 1951, M.S.E.E., 1953, Texas Technological College; Bell Telephone Laboratories, 1953—. Mr. Rosson was first engaged in development work on military data-transmission systems, and also in circuit development work for guided missiles. Later he was engaged in mathematical work using digital and analog computers and on circuit design for missile-borne equipment. At present he is concerned with ICBM and space guidance analysis. Member I.R.E., Kappa Mu Epsilon.

VEIKKO R. SAARI, B.S., 1951, M.S., 1956, University of Minnesota, and M.E.E., 1959, New York University; Bell Telephone Laboratories 1956—. Mr. Saari was first engaged in exploratory development work on transistor multiple-loop feedback amplifiers. He later worked on high-frequency transistor circuitry and low-drift amplifiers, including IF and video amplifiers, compressing amplifiers and dc amplifiers for analog-to-digital encoders. More recently, he has been concerned with the design of solid-state circuitry for the TL microwave system and of the command receiver of the experimental Telstar satellite. Member I.R.E., American Association of Physics Teachers, National Committee of 1963 International Solid-State Circuits Conference.

FRANCIS J. WITT, B.S.E.E., 1953, M.S.E.E., 1955, Johns Hopkins University; Bell Telephone Laboratories, 1954-55, 1957—. At Bell Laboratories Mr. Witt has engaged in active and sampled-data network exploratory research and in solid-state circuit development for short-haul carrier systems. Later he was in charge of a group responsible for the development of some of the solid-state circuits in the Telstar experimental communications satellite. At present he is concerned with the development of digital processing circuitry for a high-speed PCM transmission system. Member I.R.E., National Committee of 1963 International Solid-State Circuits Conference, Tau Beta Pi, Sigma Xi.

