

Contributors to This Issue

HUGH T. BALCH, B.S.E. (EE), 1945 and M.S.E. (EE), 1947, University of Michigan; Bell Telephone Laboratories, 1947—. Mr. Balch was first involved in the development of mobile radio systems for Bell System use. He then participated in the development of the AN/TRC-24 radio system for the U.S. Army Signal Corps. Since 1953 he has been concerned with the development of sonar systems for the U.S. Navy. He currently heads a group studying the application of new data processing techniques to future passive sonars. Licensed Professional Engineer — New Jersey.

GLENN E. CONKLIN, B.S., 1951 and M.S., 1953, University of Wichita; Ph.D., 1962, University of Kansas; Bell Telephone Laboratories, 1960–1966. Initially Mr. Conklin was engaged in investigating the millimeter microwave dielectric properties of plastics. Recently his work has been directed toward precision optical measurements. Member, American Physical Society.

JOHN C. DALE, B.E.E., 1957, University of Florida; M.E.E., 1959, New York University; Bell Telephone Laboratories, 1957—. Mr. Dale has been involved in the design of signal processors for use in anti-submarine warfare. He is presently engaged in applying digital data processing techniques to detect and recognize patterns. Member, Sigma Tau, Phi Kappa Phi, IEEE.

T. W. EDDY, B.S., 1958, University of Idaho; M.S., 1960, New York University; Bell Telephone Laboratories, 1958—. Until recently, Mr. Eddy has been engaged in the development of special purpose transmission systems for military applications. Recently, he has been concerned with problems of detecting signals in the presence of noise. Member, IEEE, Sigma Tau.

ROBERT M. LAUVER, B.S., 1956, University of Connecticut; M.E.E., 1961, New York University. At present, Mr. Lauver is working toward the Ph.D. degree in E.E. at Polytechnic Institute of Brooklyn. Bell Telephone Laboratories, 1956—. Mr. Lauver was first engaged in

development work on airborne missile guidance systems. He has since been concerned with development of sonar systems and is currently engaged in the study of signal processing techniques applied to sonar systems. Member, IEEE, AAAS, Tau Beta Pi, Eta Kapp Nu.

DIETRICH MARCUSE, Diplom Vorpruefung, 1952, and Dipl. Phys., 1954, Berlin Free University; D.E.E., 1962, Technische Hochschule, Karlsruhe, Germany; Siemens and Halske (Germany), 1954-57; Bell Telephone Laboratories, 1957—. At Siemens and Halske, Mr. Marcuse was engaged in transmission research, studying coaxial cable and circular waveguide transmission. At Bell Telephone Laboratories, he has been engaged in studies of circular electric waveguides and work on gaseous masers. He is presently working on the transmission aspect of a light communications system. Member, IEEE.

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 concerned 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, American Mathematical Society, SIAM, Sigma Xi, Tau Beta Pi, AAAS.

J. A. MORRISON, B.Sc. 1952, King's College, London University; Sc.M., 1954 and Ph.D., 1956, Brown University; Bell Telephone Laboratories, 1956—. A research mathematician, Mr. Morrison has worked on a variety of problems in mathematical physics. Currently, he is concentrating his interests on averaging methods, as applied to perturbed nonlinear oscillations and to problems in celestial mechanics. Member, American Mathematical Society, Society for Industrial and Applied Mathematics, Sigma Xi.

J. B. O'NEAL, JR., B.E.E., 1957, Georgia Institute of Technology; M.E.E., 1960, University of South Carolina; Ph.D., 1963, University of Florida; Bell Telephone Laboratories, 1964—. While employed at the Martin Company in 1959-60, he worked on random access communications systems. He is currently engaged in studies to determine efficient coding techniques for converting analog television signals into digital form. Member, IEEE, Eta Kappa Nu; associate member, Sigma Xi.