

Contributors to this Issue

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IRWIN W. SANDBERG, B.E.E., 1955, M.E.E., 1956, and D.E.E., 1958, Polytechnic Institute of Brooklyn; Bell Telephone Laboratories, 1958—. He has been concerned with analysis of military systems, particularly radar systems, and with synthesis and analysis of active and time-varying networks and linear array antennas. Member I.R.E., Eta Kappa Nu, Sigma Xi, Tau Beta Pi.

DAVID SLEPIAN, University of Michigan, 1941-43; M.A., 1947, and Ph.D., 1949, Harvard University; Bell Telephone Laboratories, 1950—. He has been engaged in mathematical research in communication theory, switching theory and theory of noise, and has been mathematical consultant on various Bell Laboratories projects. In 1958 and 1959 he was Visiting Mackay Professor of Electrical Engineering at the University of California at Berkeley. Member A.A.A.S., American Mathematical Society, Institute of Mathematical Statistics, I.R.E., Society for Industrial and Applied Mathematics, U.R.S.I. Commission 6.

A. W. WARNER, B.A., 1940, University of Delaware; M.S., 1942, University of Maryland; instructor in physics, Lehigh University, 1941-42; Western Electric Co., 1942-43; Bell Telephone Laboratories, 1943—. Since joining the Bell System Mr. Warner has been continuously engaged in the development of high-frequency quartz crystal units. At present he is continuing the development of very stable crystal units and other solid state devices making use of crystalline quartz. Senior member I.R.E.

FRANK A. ZUPA, B.S. in E.E., 1922, Cooper Union; Western Electric Co. Engineering Dept., 1918-25; Bell Telephone Laboratories, 1925—. He was engaged in evaluation testing of materials and switching apparatus for about six years, and in design and development engineering work on practically all types of telephone relays for more than 30 years. During World War II he was in charge of the packaging design for production of the optical proximity fuse and in the evaluation testing of magnetic mine M11. At present he is in charge of a group engaged in new switch and relay design developments.