

Contributors to this Issue

R. S. CARUTHERS, B.S., University of Maryland, 1926; E.E., 1930; M.S., Massachusetts Institute of Technology, 1928. General Electric Company, 1926-28; U. S. Bureau of Standards, 1928-29. Bell Telephone Laboratories, 1929-. Prior to the war Mr. Caruthers was engaged chiefly in the development of the C, J and K Carrier Telephone Systems. During the war he was engaged in the design of radar equipment. Since the war his principal activities have been as project engineer for the N1 and O Carrier Telephone development.

J. J. GILBERT, A.B., University of Pennsylvania, 1909; Harvard, 1910-11; University of Chicago, 1911-12; E.E., Armour Institute, 1915; Instructor of Electrical Engineering, Armour, 1912-17. Captain, Signal Corps, 1917-19. Bell Telephone Laboratories, 1919-. Mr. Gilbert's work with the Laboratories has been concerned with submarine cable problems.

WILLIAM M. GOODALL, B.S., California Institute of Technology, 1928. Bell Telephone Laboratories, 1928-. Mr. Goodall has worked on research problems in connection with the ionosphere, radio transmission and early radio relay studies, radar modulators, microwave radio relay systems, and Pulse Code Modulation.

J. L. MERRILL, JR., Pennsylvania State College, B.S. in Electrochemistry, 1928; Elliot Research Fellow, 1928-30; M.S., 1930. American Telephone and Telegraph Company, Department of Development and Research, 1930-34; Bell Telephone Laboratories, 1934-. With the American Telephone and Telegraph Company Mr. Merrill worked on transmission problems related to the exchange area. After coming to the Laboratories he continued to work on exchange area transmission projects such as the transmission features of the Time and Weather Announcement Systems, Service Observing, Operator Training and like systems. During the war he was engaged with a group planning system operation of air raid warning and of tactical wire and radio networks. Since the war his efforts have been directed toward the design and application of repeaters for the exchange area plant.

RUSSELL C. MINER, B.S. in Electrical Engineering, University of California, 1929. Bell Telephone Laboratories, 1929-. Mr. Miner has been engaged in work chiefly concerned with the development of acoustical instruments.

EDWARD E. MOTT, B.S. and M.S. in Electrical Engineering, Massachusetts Institute of Technology, 1928. General Electric Company, 1926-28. Bell Telephone Laboratories, 1928-. Mr. Mott has been engaged in telephone instruments research and development, particularly in connection with various types of telephone receivers and related devices. During the war he was engaged in underwater sound studies.

R. L. PEEK, JR., Columbia College, A.B. 1921; School of Mines, Columbia University, Met. E., 1923. Bell Telephone Laboratories, 1924-. From 1924 to 1936 Mr. Peek was engaged in studies of materials and materials testing. Since 1936 he has been engaged in the development of electromagnetic switching apparatus and (in 1941 to 1945) other applications of magnetics and magnetostriction.

CLAUDE E. SHANNON, B.S. in Electrical Engineering, University of Michigan, 1936; S.M. in Electrical Engineering and Ph.D. in Mathematics, M.I.T., 1940. National Research Fellow, 1940. Bell Telephone Laboratories, 1941-. Dr. Shannon has been engaged in mathematical research principally in the use of Boolean Algebra in switching, the theory of communication, and cryptography.

THOMAS SHAW, S.B., Massachusetts Institute of Technology, 1905. American Telephone and Telegraph Company, Engineering Department, 1905-19; Department of Development and Research, 1919-33. Bell Telephone Laboratories, 1933-48. Mr. Shaw's active telephone career was mainly concerned with loading problems in telephone circuits, including the transmission and economic features of the loading apparatus. The article now being published was started shortly before his retirement in 1948.