

Contributors to This Issue

B. S. BIGGS, B.A., Southwest Texas Teachers College, 1927; M.A., University of Texas, 1931, Ph.D., 1933; Civil Research Laboratory, Carnegie Institute of Technology, 1933-1936. Bell Telephone Laboratories, 1936-. With the Laboratories he has worked chiefly on the synthesis of wood preservatives, on dielectric materials and on other phases of organic chemistry. He is a member of the American Chemical Society and of Sigma Xi.

G. T. FORD, B.S., Michigan State College, 1929; M.A., Columbia, 1936. Bell Telephone Laboratories, 1929-. With the Laboratories he has worked on gas tubes, thermistors, general vacuum tube development, and electron tubes for broad band amplifiers. He is a member of the Institute of Radio Engineers.

R. W. FRIIS, B.E.E., University of Minnesota, 1930. Bell Telephone Laboratories, 1930-. With the Laboratories Mr. Friis has been concerned with transoceanic and ship-to-shore radio telephone, fire-control radio transmitters, and the microwave radio-relay system. He is a Senior Member of the Institute of Radio Engineers.

J. C. LOZIER, B.A., Columbia, 1934. R.C.A. Mfg. Co., 1935-1936. Bell Telephone Laboratories, 1936-. Mr. Lozier's work with the Laboratories has been principally transmission development for radio and carrier telephone systems, the theory and design of servomechanisms, and the theory of feedback systems such as companders and regulators. He is a Senior Member of the Institute of Radio Engineers.

R. C. PRIM, III, B.S.E.E., University of Texas, 1941; M.A. and Ph.D., Princeton, 1949. General Electric Company, 1941-44; Naval Ordnance Laboratory, 1944-49. Bell Telephone Laboratories, 1949-. Here his work has been chiefly mathematical research on non-linear partial differential equations and as a consultant on military projects. Dr. Prim is a member of the Amer. Math. Soc., the Amer. Phys. Soc., Sigma Xi and Tau Beta Pi.

JOHN RIORDAN, B.S., Yale, 1923. Amer. Tel. and Tel., 1926-34; Bell Telephone Laboratories, 1934-. With the American Company and subsequently with the Laboratories, Mr. Riordan has been concerned chiefly with

transmission theory, the application of Boolean algebra to switching, number theory in cable splicing, and combinatorial and probability studies of traffic. He is a member of the Amer. Math. Soc., Math. Assoc. of America, Inst. of Math. Statistics, and Fellow of the Amer. Assoc. for the Advancement of Science.

A. A. ROETKIN, B.E.E., Ohio State University, 1927; M.Sc., 1929. Bell Telephone Laboratories, 1929-. With the Laboratories Mr. Roetkin has worked on overseas radio telephone receivers, ultra-high frequency, point-to-point radio telephone service, pulse multiplex microwave radio repeaters for the armed forces, and microwave radio-relay systems. He is a member of the Institute of Radio Engineers.

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 which is concluded in this issue was started shortly before his retirement in 1948.

K. D. SMITH, B.A., Pomona College, 1928; M.A., Dartmouth, 1930. Bell Telephone Laboratories, 1930-. Consultant to National Defense Research Council, 1941-44. Awarded Joint Army-Navy Certificate of Appreciation for Scientific Achievement following World War II. With the Laboratories Mr. Smith has been concerned with the coaxial cable system, radar bombing equipment, broad band microwave radio system, and transistors. He is a Senior Member of the Institute of Radio Engineers.

R. L. WALLACE, JR., B.A. summa cum laude, physics and mathematics, University of Texas, 1936; M.A., physics, 1939; Special Research Associate, Harvard, 1941-45. Bell Telephone Laboratories, 1946-. Mr. Wallace's work with the Laboratories has been chiefly concerned with magnetic recording and transistors. He is a member of the Acoustical Society of America, Phi Beta Kappa, and Sigma Chi.

E. J. WALSH, Bell Telephone Laboratories, 1928-. Mr. Walsh's work with the Laboratories has been chiefly on vacuum tube design, magnetrons, proximity fuse tubes, reflex oscillators and close-spaced fine-wire grid tubes.

