

## Contributors to this Issue

ELIZABETH J. ARMSTRONG, M.A. in Geology, Bryn Mawr College, 1934; Ph.D., 1939. Lecturer in Geology, Barnard College, 1938-41; Research Assistant, Columbia University, 1941-42; National Research Council Fellow, 1942-43; Bell Telephone Laboratories, 1943-. Miss Armstrong has been working chiefly on problems related to the orientation of piezoelectric crystal plates.

RALPH B. BLACKMAN, A.B. in Physics and Engineering, California Institute of Technology, 1926. Member of technical staff, Bell Telephone Laboratories, 1927-. Engaged in research and consultation in applied mathematics.

WALTER L. BOND, B.S. in Physics, Washington State College, 1927; M.S. 1928. Member of Technical Staff, Bell Telephone Laboratories 1928-. Studied at Columbia University, New York University, and Stevens Institute. Engaged primarily in studies of the physical properties of crystals.

KARL K. DARROW, B.S., University of Chicago, 1911; University of Paris, 1911-12; University of Berlin, 1912; Ph.D., University of Chicago, 1917. Western Electric, 1917-25; Bell Telephone Laboratories, 1925-. As Research Physicist, Dr. Darrow has been engaged largely in writing on various fields of physics and the allied sciences.

K. G. VAN WYNEN, E.E., Cornell University, 1925; M.E.E., Brooklyn Polytechnic Institute, 1933; American Telephone and Telegraph Company, 1925-1934; Bell Telephone Laboratories, Inc., 1934-. Mr. Van Wynen has worked principally on special problems arising from transmission studies of the local telephone plant.

G. W. WILLARD, B.A., University of Minnesota, 1924; M.A., 1928; Instructor in Physics, University of Kansas, 1927-28; Student and Assistant, University of Chicago, 1928-30. Bell Telephone Laboratories, 1930-. Mr. Willard's work has had to do with special problems in piezoelectric crystals.