

## Contributors to this Issue

BANCROFT GHERARDI, M.E., M.M.E., Cornell University. Engineering assistant, 1895-09; traffic engineer, 1899, New York Telephone Company; chief engineer, New York and New Jersey Telephone Company, 1900-06; assistant chief engineer, New York Telephone Company, and New York and New Jersey Telephone Company, 1906-07; equipment engineer, American Telephone and Telegraph Company, 1907-09; engineer of plant, 1909-18; acting chief engineer, 1918-19; chief engineer, 1919-20; vice-president and chief engineer, 1920—. Mr. Gherardi's work in the field of telephony is too well known to require comment.

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WALTER A. SHEWHART, A.B., University of Illinois, 1913; A.M., 1914; Ph.D., University of California, 1917; Engineering Department, Western Electric Company, 1918-24; Bell Telephone Laboratories, Inc., 1925—. Mr. Shewhart has been engaged in the study of the relationship between the microphonic and physicochemical properties of carbon.

HARVEY FLETCHER, B.S., Brigham Young, 1907; Ph.D., Chicago, 1911; instructor of physics, Brigham Young, 1907-08; Chicago, 1909-10; Professor, Brigham Young, 1911-16; Engineering Department, Western Electric Company, 1916-24; Bell Telephone Laboratories, Inc., 1925—. During recent years, Dr. Fletcher has conducted extensive investigations in the fields of speech and audition.

JOHN R. CARSON, B.S., Princeton, 1907; E.E., 1909; M.S., 1912; Research Department, Westinghouse Electric and Manufacturing Company, 1910-12; instructor of physics and electrical engineering, Princeton, 1912-14; American Telephone and Telegraph Company, Engineering Department, 1914-15; Patent Department, 1916-17; Engineering Department, 1918; Department of Development and Research, 1919—. Mr. Carson's work has been along theoretical lines and he has published many papers on theory of electric circuits and electric wave propagation.

KARL K. DARROW, S.B., University of Chicago, 1911; University of Paris, 1911-12; University of Berlin, 1912; Ph.D., in physics and mathematics, University of Chicago, 1917; Engineering Department, Western Electric Company, 1917-24; Bell Telephone Laboratories, Inc., 1925—. Mr. Darrow has been engaged largely in preparing studies and analyses of published research in various fields of physics.

RALPH BOWN, M.E., 1913, M.M.E., 1915, Ph.D., 1917, Cornell University, Captain Signal Corps, U. S. Army, 1917-19; Department of Development and Research, American Telephone and Telegraph Company, 1919—. Mr. Bown has been in charge of work relating to radio transmission development problems.

DELOSS K. MARTIN, B.S., Polytechnical College of Engineering, 1920; U. S. Navy, 1918-1919; Department of Development and Research, American Telephone and Telegraph Company, 1919—. Mr. Martin's work has related particularly to radio broadcast transmission.

RALPH K. POTTER, B.S., Whitman College, 1917; E.E., Columbia University, 1923; U. S. Army, 1917-19; Department of Development and Research, American Telephone and Telegraph Company, 1923—. Mr. Potter has been engaged in experimental work relating to radio transmission phenomena.

# CORRECTION SLIP FOR ISSUE OF JANUARY, 1926

Page 172: Equation should read

$$\Delta d = \sqrt{y^2 + 4h^2} - y.$$

Page 177: Equations (9), (10), (11) and (13) should read

$$\Theta_1 = 2\pi \int_0^t [F_o + f \sin r (t - d_1/V)] dt, \quad (9)$$

$$\Theta_2 = 2\pi \int_0^t [F_o + f \sin r (t - d_2/V)] dt. \quad (10)$$

$$\begin{aligned} \Delta\Theta = \Theta_1 - \Theta_2 = 2\pi \int_0^t F_o dt + 2\pi \int_0^t f \sin r (t - d_1/V) dt \\ - 2\pi \int_0^t F_o dt - 2\pi \int_0^t f \sin r (t - d_2/V) dt, \end{aligned} \quad (11)$$

$$\begin{aligned} \Delta\Theta = \frac{2\pi f}{r} [(\cos rt - 1) (\cos r d_2/V - \cos r d_1/V) \\ + \sin rt (\sin r d_2/V - \sin r d_1/V)]. \end{aligned} \quad (13)$$

Delete (12)