

PUBLICATIONS RELATING TO
ELECTRICAL MEASURING INSTRUMENTS, METERS
AND THEIR ACCESSORIES

(June 14, 1927)

This letter circular gives a selected list of publications originating at the Bureau of Standards which deal with the design, testing or performance of electrical measuring instruments and meters. In making up the list, a number of the older publications of the Bureau were omitted because they have been virtually superseded by later papers, or because the particular devices treated in them are no longer in general use.

Many requests for information in this field received by the Bureau of Standards can best be answered by reference to some standard text book. Accordingly there are listed below a few such books which contain in convenient form the information which is most frequently requested.

The Bureau makes no tests on motors, generators or transformers used for power or lighting service, and has no current publications on their design or performance.

The publications listed can be consulted in almost any large public library and in particular at the "government depository libraries", a list of which is given in the Supplement to Bureau of Standards Circular 24. Publications marked with a star may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the prices stated. Only those marked "(f)" are available for free distribution by the Bureau of Standards.

Publications of the Bureau of Standards:

Scientific Papers

(The earlier Scientific Papers were issued in the Bulletin of the Bureau of Standards; volume and page numbers below refer to the Bulletin).

- S130, The Determination of the Constants of Instrument Transformers, P.G. Agnew and T. F. Fitch, (July 5, 1909) 19 pp. Vol. 6, p.281.
- S145, A Device for Measuring the Torque of Electrical Instruments, P. G. Agnew, (June 27, 1911) 4 pp. Price 5 cents.* Vol. 7, p.45.

- S164, A Study of the Current Transformer with Particular Reference to Iron Loss, P. G. Agnew, (June 1, 1911) 52 pp. Price 10 cents.* Vol. 7, p.423.
- S172, Deflection Potentiometers for Current and Voltage Measurements, H. B. Brooks, (June 23, 1911) 23 pp. Vol. 8, p.395.
- S173, Outline of Design of Deflection Potentiometers, with Notes on the Design of Moving-Coil Galvanometers, H. B. Brooks, (June 23, 1911) 26 pp., Vol 8, p.419.
- S207, A Comparative Study of American Direct-Current Watt-hour Meters, T. T. Fitch and C. J. Huber, (July 11, 1913), 30 pp. Price 15 cents.* Vol. 10, p.161.
- S211, Accuracy of the Formulas for the Ratio, Regulation, and Phase Angle of Transformers, P. G. Agnew and F. B. Silsbee (July 11, 1913) 15 pp. Price 5 cents.* Vol. 10, p.279.
- S217, Testing Potential Transformers, H.B.Brooks, (Feb.7,1914, 6 pp. Price 5 cents.* Vol. 10, p.419.
- S233, A Watthour Meter Method of Testing Instrument Transformers, P. G. Agnew, (July 18, 1914), 11 pp. Vol.11, p.347.
- S281, A Study of the Inductance of Four-Terminal Resistance Standards, F. B. Silsbee, (July 12, 1916) 48 pp. Price 15 cents.* Vol. 13, p.375.
- S290, A Variable Self and Mutual Inductor, H. B. Brooks and F. C. Weaver, (Oct. 12, 1916) 12 pp., Vol. 13, p.569.
- S291, A System of Remote Control for an Electric Testing Laboratory, P. G. Agnew, W. H. Stannard, and J. L. Fearing, (Oct. 12, 1916) 17 pp. Vol. 13, p.581.
- S292, International System of Electric and Magnetic Units, J. H. Dellinger, (Oct. 11, 1916), 33 pp. Price 10 cents.* Vol. 13, p. 599.
- S309, A Method for Testing Current Transformers, F.B.Silsbee, (Nov.3, 1917) 13 pp. Price 5 cents.* Vol. 14, p.317.
- S370, A New Form of Vibration Galvanometer, P. G. Agnew, (Mar. 12, 1920), 10 pp. Price 5 cents*. Vol.16, p.37.
- S516, A Shielded Resistor for Voltage Transformer Testing, F. B. Silsbee, (July 11, 1925) 25 pp. Price 15 cents.* Vol. 20, p.489.

Circulars

- C20, Electrical Measuring Instruments, Price 15 cents.*
- C24 (f) Publications of the Bureau of Standards.
- C31, Copper Wire Tables, Price 20 cents.*
- C56, Standards for Electric Service, Price 60 cents.*
- C60, Electric Units and Standards, Price 15 cents.*
- C73, Copper, Price 20 cents.*
- C74, Radio Instruments and Measurements, Price 60 cents.*

Handbooks

- H3, National Electrical Safety Code (Superseding C54),
A new edition of this Handbook is now in press
and will be obtainable from the Superintendent of
Documents within a few months. Parts of the code
have been issued separately in the following hand-
books.
- H6, Safety rules for the installation and maintenance
of electrical supply stations (Comprises Part 1 and
grounding rules of the 4th edition of the national
electrical safety code.) 10 cents.*
- H7, Safety rules for the installation and maintenance
of electric utilization equipment (Comprises Part 3
and grounding rules of 4th edition of the national
electrical safety code). 15 cents.*
- H8, Safety rules for the operation of electrical equip-
ment and lines (Comprises Part 4 of the 4th edition
of the national electrical safety code and supersedes
C 49). 15 cents.*
- H9, Safety rules for radio installations (Comprises Part 5
of the 4th edition of the national electrical safety
code.) 10 cents.*
- H10, Safety rules for the installation and maintenance of
electrical supply and communication lines (Comprises
Part 2 of the 4th edition of the national electrical
safety code) (In press).

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Fee Schedules (f)

- 132, Direct-current ammeters
- 133, Direct-current voltmeters
- 134, Alternating-current ammeters
- 135, Alternating-current voltmeters
- 136, Wattmeters
- 137, Direct-current watthour meters
- 138, Alternating-current watthour meters
- 139, Frequency meters
- 1310, Current transformers
- 1311, Voltage (potential) transformers

Letter Circular (f)

- 222, Testing of Electrical Instruments, Meters, and Instrument Transformers, Feb. 1927, (In explanation of fee schedules).

Articles Published in Outside Journals by Members of the Bureau Staff

- The Testing of Instrument Transformers, by P. G. Agnew and F. B. Silsbee, Trans. Amer. Inst. Elec. Engrs. vol.31, p.1635, 1912.
- Accuracy of Commercial Electrical Measurements, by H. B. Brooks, Trans. Amer. Inst. Elec. Engrs., vol. 39, p.495, 1920.
- The Two-Stage Current Transformer, by H. B. Brooks and F. C. Holtz, Trans. Amer. Inst. Elec. Engrs., vol. 41, p.382, 1922.
- Lead Resistance for Current Transformers, by F. B. Silsbee, Electrical World, vol.81, p.1082, May 12, 1923.
- The Standardization of Electrical Measuring Instruments, by H. B. Brooks, Trans. Amer. Inst. Elec. Engrs., vol. 42, p.894, 1923.
- Methods for Testing Current Transformers, by F. B. Silsbee, Trans. Amer. Inst. Elec. Engrs., vol. 43, p.282, 1924.
- Accuracy Tests for Meggers, by H. B. Brooks, Electrical World, vol. 85, p.973, 1925.

Publications by Outside Organizations.

Standards of the American Institute of Electrical Engineers.
(33 West 39th Street, New York City).

No. 14. Standards for Instrument Transformers,
March 1925, 30 cents.

No. 33. Standards for Electrical Measuring
Instruments, January 1927, 30 cents.

Annual Reports of the Meter Committee of the National Elec-
tric Light Association, 29 West 39th Street, New York City.

Handbook for Electrical Metermen (4th ed. 1923). National
Electric Light Association, 29 West 39th St., New York City.
\$4.00.

Code for Electricity Meters. National Electric Light
Association, 29 West 39th Street, New York City.

Pender's Handbook for Electrical Engineers, John Wiley &
Sons, New York City, (2d ed. 1922).

Standard Handbook for Electrical Engineers, McGraw-Hill
Book Co., New York City (5th ed. 1922).

Industrial Electrical Measuring Instruments, Kenelm Edgcumbe,
D. Van Nostrand Co., New York City, (2d ed. 1918).

Electrical Measurements, F. A. Laws, McGraw-Hill Book Co.,
New York City.

