

The Railway Law of Canada.—By Mr. Samuel W. Jacobs, K.C., of the Montreal Bar. The work includes the Statute Revisions of 1906, and contains valuable directions and suggestions as to organization and management which save much time in a busy law office.

At the same time directions and authorities are given with sufficient clearness that organizers or directors can readily understand points which would otherwise require the explanation of a solicitor. The sections as to construction and operation appear to be particularly useful. Those parts dealing with interpretation of the Railway Act and as to the comparatively new practice before the Board of Commissioners save much time and give the practitioner the relief that comes with a sense of certainty.

The work which is fairly exhaustive on Railway Law in Canada, will also recommend itself to many officials handling railway, baggage and passenger traffic, and we think will recommend itself both to the legal profession and the mass of persons connected with railway corporations.—J. E. P.

Practical Engineer Pocket Book.—Published by the Technical Publishing Co., 55 Chancery Lane, London, W.C. Size, 3 x 6; pages, 700. Price, leather, 50 cents; cloth, 35 cents.

This annual publication is of great interest to engineers. In addition to the information it has contained there are added notes on fuel-testing, condensers, friction of air and water in pipes, alloys, suction gas producers, etc.

Practical Engineer "Electrical" Pocket Books.—Published by the Technical Publishing Co., 55 Chancery Lane, London, W. C. Size, 3 x 5; pages, 570. Price, leather, 50 cents; cloth, 35 cents.

The following headings include some of the items of new matter that appear in the current issue: Storage Batteries; Design of Motor Starting Resistances; Water Resistances for Testing Purposes; the International Candle; the Transformation of Currents for Power Purposes; Types of Underground Boxes; Modern Wiring Systems, including the Kalkos and O.S.; Metallic Filament Lamps; Arc Lamps; besides numerous other additions and revisions, tables, etc.

Practical Armature and Magnet Winding.—By Henry C. Herstmann and Victor H. Tousley. Published by Frederick J. Drak & Co., Chicago; 251 pages, 128 illustrations; pocket size, full morocco. Price, \$1.50.

As the name implies, it is a treatise for the practical electrician, explaining the fundamental theory of armature and magnet winding in a simple manner, readily understood by the non-technical reader. The more common forms of armature winding and construction are illustrated and described in the text, along with the chapters on the calculation of armature windings, affords information in sufficient detail to an understanding of the principles of the design of the common armature. It will be found of interest to the practical man.—F. A. G.

PUBLICATIONS RECEIVED.

"Tests of Tungsten Lamps," by T. H. Amrine and A. Guell, issued as Bulletin No. 33, of the Engineering Experiment Station of the University of Illinois. It reports a series of tests upon tungsten lamps of the 25-watt size, with filaments made by the paste, colloid and deposition processes. Copies of Bulletin No. 33 may be obtained gratis upon application to W. F. M. Goss, Director of Engineering Experiment Station, University of Illinois, Urbana, Illinois.

"The Occluded Gases in Coal," by S. W. Parr and Perry Barker, issued as Bulletin 32 of the Engineering Experiment

Station of the University of Illinois, is essentially a study of the behavior of coal towards the atmosphere. The avidity of coal for oxygen is made evident, and the results of the entire work bear directly upon the matter of weathering and of spontaneous combustion. Copies of Bulletin No. 32 may be obtained gratis upon application to W. F. M. Goss, Director of the Engineering Experiment Station, University of Illinois, Urbana, Illinois.

Production of Iron and Steel in Canada, 1907-8 by John McLeish, B.A.; 35 pp., 6 x 9, pub. doc. Department of Mines, Mines Branch, Ottawa, Ont.

Tests on the Permeability of Concrete, by Francis Michael McCullough, B.S., Instructor in Mechanics, University of Wisconsin, Madison, Wis. 36 pp., 6 x 9.

Forest Products of the United States, 1908. 137 pp., 6 x 9; pub. doc.; Department of Commerce and Labor, Bureau of the Census; E. Dana Durand, Director, Washington.

Recent Development of the Producer-Gas Power Plant in the United States, by Robt. Heywood Fernald. 82 pp., 6 x 9; pub. doc.; United States Geological Survey, Department of the Interior, Washington; Geo. Otis Smith, Director.

Proceedings of the American Mining Congress, twelfth annual session, at Goldfield, Nev., September 27th, October 2nd, 1909; 460 pp., 6 x 9. Jas. F. Callbreath, Jr., Secretary, Denver, Col.

CATALOGUES AND CIRCULARS.

Cutting and Welding of Metals is the subject dealt with in a recent publication issued by the American Oxhydric Co., Milwaukee, Wis. Tables and illustrations are included, together with much interesting information.

Mine Locomotives.—A seventy-page book has just been issued by the Jeffrey Manufacturing Co., of Columbus, Ohio, and Montreal, Canada, on electric locomotives for mines. The publication contains much information and many interesting illustrations.

Sewage Purification Works.—An interesting report descriptive of the sewage purification works installed in Harwich, England, by the Urban District Council has just been prepared by Mr. J. H. Brocklehurst, Assoc. Mem. R. San. Inst., Harwich. Illustrations and tables are included. Published by Whitehead & Poole, Milltown Engineering Works, Radcliffe, near Manchester, England.

Waterworks Specialities.—Line Drawings and other illustrations and descriptions devoted to tapping engines, machines and waterworks specialities generally are included in a recent catalogue issued by the Waterworks Equipment Co., of 50 Church Street, New York city.

Spiral Rivetted Pipe.—Forged steel pipe flanges, hydraulic and exhaust steam supplies, etc., are illustrated and described by the American Spiral Pipe Works Co., P.O. Box 485, Chicago, Ill., in pamphlet No. 30.

Arc Lamps.—Recent Types of Arc Lamps and Their Operation, by C. E. Stephens, is the title of an interesting paper included in pamphlet 1506, published by the Westinghouse Electric and Manufacturing Co., of Pittsburg, Pa., from whom copies may be secured.

Hassam Granite Block and Compressed Concrete Pavements are dealt with in an interesting publication issued by the Hassam Paving Co., Worcester, Mass, U.S.A.