

NEW BOOKS.

The following new books have been received:

A New System of Heavy Goods Transport on Common Roads. By B. J. Diplock. Longmans, Greene & Co., London. A very good work on traction engines.

Statics by Algebraic and Graphic Methods. By Lewis J. Johnson, C.E. New York, John Wiley & Sons. A book of great service for students of engineering and architecture.

New Knowledge on Belt Management. By John E. Powers, M.A. Issued by the Buffalo Cling-Surface Mfg. Co.

Proceedings of 12th Annual Convention of Association of Railway Superintendents of Bridges and Buildings. S. F. Patterson, secretary, Concord, N.H.

Proceedings of 17th Annual Meeting of the Association of Health Officers of Ontario held at Berlin. Dr. P. H. Bryce, secretary, Toronto.

Technical Education and the Higher Industrial Life. Address by H. F. J. Porter, M.E., of the Bethlehem Steel Co.

NEW CATALOGUES.

Copies of these new catalogues and booklets will be sent to parties interested by mentioning The Canadian Engineer: Dodge Mfg. Co., Toronto, power transmission machinery. Robb Engineering Co., Amherst, N.S., Robb-Armstrong engines.

The Fairbanks Co., Montréal and Vancouver, Yale & Towne chain blocks.

Brown & Sharpe Mfg. Co., Providence, R.I., machinery and tools.

Westinghouse Electric & Mfg. Co., Pittsburg, fan motors; also fifty-four car loads (meters).

Stromberg-Carlson Telephone Mfg. Co., Rochester and Chicago, bridging telephones.

Arthur Koppel, New York, narrow gauge railway materials Johnson & Phillips, Old Charlton, Kent, and 14 Union Court, Old Broad street, London; price list of Arc lamps.

Farr Telephone & Construction Supply Co., Chicago, telephones and telephone supplies.

J. Stevens Arms and Tool Co., Chicopee Falls, Mass., Stevens rifle telescopes.

Sylvester Mfg. Co., Lindsay, Ont., gasoline engines and launches.

Arlington Mfg. Co., Canton, Ohio, Arlington vegetable boiler composition.

Mica Boiler Covering Co., 86-92 Ann street, Montreal, mica covering.

Pittsburg Meter Co., Pittsburg, Penn., Meter System vs. Flat Rate System. hv

The Garvin Machine Co., New York, second-hand machine tools.

Joseph Dixon Crucible Co., Jersey City, N.Y., Silica graphite roof paint; also Graphite for March and April.

Manual of Electrical Undertakings, Mowbray House, Norfolk street, London. Extracts from Seventh Annual Volume.

Canadian General Electric Co., Toronto. Card re Lightning Arresters.

ENGINEERS' CLUB OF TORONTO.

The Engineers' Club, of Toronto, held two meetings during April. On the 7th, J. H. Chewitt, C.E., read a paper on Recent Developments in Acetylene Lighting, which he illustrated by means of the Siche gas machine, of which he is one of the manufacturers. On the 23rd, R. B. Rogers, C.E., Peterboro, read a paper on the Waterways of Canada, more especially the Trent Valley Canal, of which he is chief engineer. He described in some detail the hydraulic lock now under construction at Peterboro. This canal and lock were described in the February number of The Engineer. The paper was illustrated by a large number of lantern views.

The club has been invited by Cecil Smith, chief engineer of the Canadian Power Co., to pay a visit to the works at Niagara Falls. It is expected the trip will be made on May 30th.

—The contract for the Quebec and Lake Huron Railway has been signed, and construction will shortly be commenced at the Quebec terminus. The railway will run from Quebec to French River. New York capitalists are at the back of the enterprise and the three Canadian directors are; Hon. C. Langelier, Hon. A. Turgeon and Hon. H. G. Carrol.

—Referring to the paragraph in another part of this issue, mentioning the transfer of the franchise and plant of the Merchants' Telephone Co. of Montreal, Dr. J. N. Culburtson, of New York, has been elected president and general manager, and Joseph Maison is appointed secretary, with offices at 83 St. James street. It is expected that in a few days the new company will announce its plans for extending its present exchange or putting in a new system. The company has at present about 1,000 phones, and its rates are \$35 for business phones and \$25 for private houses. Dr. Culburtson was formerly with the Bell Company in the United States, and for some years a manager of the International Bell Company in Europe.

For Sale.

Advertisements under these headings two cents per word each insertion. Advertisements twelve words or less, twenty-five cents.

BARGAINS.—Owing to reconstruction of plant, a large amount of Electrical Apparatus will be sold cheap:—A. C. Generators, 1,200 volts, 15,000 alternations, 80 to 250 K. W. Exciters, 250 volt D. C. Generators, Switches, Switchboard Voltmeters and Ammeters. Station Transformers, Belting, Iron and Wooden Pulleys, all sizes. Shatting, 3 to 6 inches. Floor Stands and Boxes. Couplings, Frictions, and other things too numerous to mention. Mostly in first-class condition. Address, "BARGAINS," this office, and full particulars will be furnished.

FOR SALE CHEAP.—New ideas and methods for working all the new steels by using Toy's Hand Colored Tool Tempering Charts. Chart A explains hardening to any degree; Chart B explains both scientific and plain tempering, showing true color each tool should be and tells what it will stand; also 40 new methods for forging and welding all the new steels and 5 of the best welding compounds for same. Colored Charts A and B and 40 new methods and receipts, all for one dollar. Samples free. Address W. M. Toy, Sidney, Ohio.

FOR BLACKSMITHS AND MACHINISTS. Scientific tool tempering and hardening to a standard by Toy's colored charts, A. and B., explaining tempering in oil, water, or tallow. Tells what each tool will stand; gives 75 new methods and recipes for forging and welding all the new steels, and 10 for the best steel welding compounds for welding all new steels. Thermite welding explained and tells how to make the compound. Thermite is the coming weld. All of the above for one dollar. Samples free. 40 years a factory steel worker. W. M. Toy, Sidney, O., U.S.A.

For Sale.

FOR SALE—One Three H. P. Marine Gasoline Engine—4-Cycle Type, complete with shaft, propeller, batteries, etc. This engine has never been used. Further particulars can be had by addressing, W. Mathieson, 50 Esplanade East, Toronto.

Situations Vacant.

A THOROUGHLY PRACTICAL MAN, with 16 years' experience in general machine work, wants position as superintendent or general foreman of machine shop; good draftsman, best references. Address Box 21, Canadian Engineer, Toronto, Ont.

BRASS FINISHERS—Fox lathe and monitor lathe hands. James Morrison Brass Manufacturing Company, 93 Adelaide Street West, Toronto.

ENGINEER TO TAKE CHARGE of a new up-to-date factory power plant in a western city, capable of repairing and adjusting steam engines, stokers, generators, motors, compressed air apparatus, etc., and not afraid of work. Apply, stating salary, to A. D. K., care Biggar-Samuel, Limited.

STATIONARY ENGINEER.—A stationary engineer, 25 years of age, with 7 years' experience in running stationary engines (both plain and automatic), holding certificate and good references, is open for situation. Address, E. Bowman, 5 Sheridan Avenue, Toronto.

WANTED—HUSTLING FOREMAN—FOR machine shop running about thirty hands. Must be capable of handling men on general line of work. The Smart-Turner Machine Company, Limited, Hamilton, Ont.

Situations Wanted.

A MECHANICAL DRAUGHTSMAN, with fifteen years' experience in locomotive and fine work, desires an engagement after the 1st of May, prox. Excellent references. Address B. E., care of Canadian Engineer, Toronto.

CONCRETE ENGINEER.—Position wanted—wide experience, concrete-steel buildings, bridges, pavements, sewers, foundations, etc., decorative concrete work in blocks or monolithic, testing of cements. Address, Box 14, care of Secretary, Room 14, Bank of Hamilton Chambers, Winnipeg, Man.

WANTED.—Position wanted with mining, coal, iron or timber company, as Engineer, Surveyor and Draftsman; reliable and experienced. Address, Box 7, care of Secretary, Room 14, Bank of Hamilton Chambers Winnipeg, Man.

WANTED.—Engagement wanted as assistant or resident engineer; experienced, masonry and concrete bridges, tunneling, steam shovel work, sewerage and water works, electric railways, city surveys. Address, Box 6, care of Secretary, Room 14, Bank of Hamilton Chambers, Winnipeg, Man.

WE HAVE—On our list, open for engagement, and covering all lines of engineering, a number of the best engineers, surveyors, draftsmen, and superintendents of construction in Canada or the United States. Address, "Secretary," Room 14, Bank of Hamilton Chambers, Winnipeg, Man.