

chlorine, how it is shipped and its uses in water sterilization, textile bleaching, paper bleaching, etc.

MODULUS OF ELASTICITY OF CONCRETE.—By Stanton Walker, associate engineer, Structural Materials Research Laboratory, Lewis Institute, Chicago; 92 pages and paper cover, 6 by 9 ins.; with an appendix on the flexure of reinforced concrete beams.

POWER IN ALBERTA.—Booklet, 32 pages and paper cover, 6½ by 9¼ ins., published by the Commission of Conservation, Ottawa, descriptive of water, coal and natural gas resources of Alberta; by James White, assistant to the chairman, Commission of Conservation.

BOSS LABOR-SAVING CONSTRUCTION MACHINERY.—Catalogue, 64 pages and paper cover, 8½ by 11 ins., published by the American Cement Machine Co., Inc., Keokuk, Iowa; printed on coated paper, profusely illustrated; descriptive of concrete mixers, hoists back fillers, pumps, saw rigs and carts.

JEFFREY SHREDDERS.—Catalogue No. 259, published by the Jeffrey Mfg. Co., Columbus, O., and Montreal, Que., 36 pages and paper cover, 6 by 9 ins., printed on coated paper, well illustrated. Describes Jeffrey type "E" swing hammer shredder for reducing wood chips, bark and other fibrous materials.

CULVERT REFERENCE BOOK.—Engineering tables and other information relating to Pedlar's Toncan-Metal Culverts are contained in the "Culvert Reference Book No. 6C" issued by the Pedlar People, Ltd., Oshawa; 24 pages and cover, 6 by 9½ ins.; printed on coated paper; well illustrated.

AUTOMATIC DISCHARGE COUNTER.—Pamphlet describing apparatus for recording the number of fillings of any tank such as water tank, flush tank, syphon chamber, chemical solution tank; etc.; also for recording application of sewage from dosing chambers to sprinkling filters or contact beds. Published by Wallace & Tiernan Co., Inc., 349 Broadway, New York.

HIGH EFFICIENCY CENTRIFUGAL PUMPS.—Pamphlet, 8 pages and paper cover, 8¼ by 10¼ ins., published by the De Laval Steam Turbine Co., Trenton, N.J. Describes official tests made by the cities of Minneapolis and St. Paul upon De Laval centrifugal pumps. The Minneapolis pump showed a combined efficiency of motor and pump of about 82½%, and a pump efficiency of 86%.

PONT-A-MOUSSON.—Published by the Société Anonyme des Hauts Fourneaux et Fonderies de Pont-a-Mousson, Paris, France. Published in French; 240 pages and leather cover, 3¼ by 5½ ins. This booklet is in two parts, the first being a catalogue of products, including flange pipe, bell and spigot pipe, drain pipe, bends, pipe fittings, manhole covers, etc. The second part of the booklet is a collection of useful formulae dealing with gas, water, etc. The book includes a brief French and English vocabulary and tables for the conversion of the metric system to English measure.

MONEL METAL.—Catalogue, 46 pages and paper cover, 4½ by 9 ins., coated paper, well illustrated in two colors, published by the Bayonne Casting Co., Bayonne, N.J. Describes Monel metal castings, sheets, rods, forgings, wire, wire clothes, wire rope, tubes, screws, ball bearings, chain, tie rods, etc. List of uses is given for Monel metal in power plants, marine installations, gas and oil engines, pickling and chemical works, dye house equipment, mining equipment, automobiles, dairy equipment, packing houses, and a score of miscellaneous uses. Monel metal is manufactured in Canada by the International Nickel Co. of Canada, Ltd., Toronto.

MODEL GR STERLING ENGINE.—Pamphlet issued by the Sterling Engine Co., 1252 Niagara St., Buffalo; 12 pages, 8¼ by 11 ins., coated paper, well illustrated. Describes 4, 6 and 8-cylinder engines up to 300 h.p. It is intended to construct these engines up to 450 h.p. This series of model GR Sterling engines has been developed from previous models which have been on the market for the past six years. The cylinder head is detachable and contains overhead dual inlet and dual exhaust valves, in addition to which various bearing surfaces have been increased. Exhaustive testing has

proven the correctness of the design of the overhead valve-operating mechanism.

FOR THE GLORY OF AMERICA.—By G. B. Livinghood. Handsome book, 144 pages and cloth cover, 9 by 12 ins., published by the Traylor Engineering & Manufacturing Co., Allentown, Pa., describing that company's work during the war. The book is printed throughout on suede coated paper in three colors and is profusely illustrated. The typographical arrangement is admirable, and the illustrations are a triumph of art work, engraving and printing. Apparently no expense has been spared in producing a book that will be a lasting memorial of the strenuous efforts made by the company, beginning in 1915, to produce shells, marine boilers, engines and ships for the Allies. The book includes a review of the companies controlled by Traylor interests, including the Traylor Engineering & Manufacturing Co., Traylor Shipbuilding Corporation, Cement-Gun Co., Inc., and the Traylor-Dewey Contracting Co. The company intends soon to issue another volume dealing more particularly with the work in which it was engaged before the war, and to which it is now returning with renewed vigor and added efficiency as a result of its experience in war-time production.

THOMAS' REGISTER.—The eleventh edition of Thomas' Register of American Manufacturers, dated January, 1920, has just been published, comprising 4,500 pages in which there are listed 300,000 names of United States manufacturers, classified under 70,000 headings. It weighs 17 lbs. The page size is 9 by 12 ins. The register is divided into three main sections, with an index totalling 176 pages. The classified section (3,340 pages) furnishes a very complete list of manufacturers classified according to products, eleven pages being devoted to the single item of acids. A capital rating is also given for each manufacturer, showing the amount of capital invested, hence the approximate size of the concern. About 800 pages are devoted to a list of the trade names or brands of manufactured products, and to a continuous list of the names of manufacturers in alphabetical order, giving the addresses of head offices and branches, names of officers, etc. An international trade section lists exporters and importers, and there is a directory of banks, commercial organizations and trade papers in the United States and Canada. The Thomas Publishing Co., New York City, are represented in Canada by the Canadian Buyers' Register Co., 90 Constance St., Toronto, from whom specimen pages, etc., can be obtained. The price of the book in Canada is \$17.50, all charges prepaid.

NOVA SCOTIA POWER COMMISSION AWARDS

TO consider tenders for general construction work and hydraulic and electrical equipment for the St. Margaret's Bay power development, which was described in the April 8th issue of *The Canadian Engineer*, a meeting of the Nova Scotia Power Commission was held April 15th in Halifax.

The contract for four generators was awarded to the Canadian General Electric Co., Toronto. The contract for wood-stave pipe, 6 and 10 ft. in diameter, was awarded to the Pacific Coast Pipe Co., Vancouver. About 200,000 lbs. of aluminum cable, for transmission line purposes, is to be supplied by the Northern Aluminum Co., Shawinigan Falls, Que.

The contract for general construction, involving dams, power-houess and intakes, grading of pipe lines and other miscellaneous work, was awarded to D. G. Loomis & Sons, general contractors, Montreal. A number of attractive proposals for this work were received.

Due to the fact that certain essential data had not yet been received from hydraulic manufacturers, a final award for the turbines could not be made.

The specifications for this development call for completion of one generating station by January 1st, 1921, and completion of the second generating station by June 1st, 1921. The total development at present under way is designed to deliver about 9,000 h.p. in Halifax.