

Steel Centering Company are to be congratulated on the publishing of this volume, as it brings together in compact form a great deal of valuable information in connection with this work.

### PUBLICATIONS RECEIVED.

**The Decimal Association.**—A pamphlet listing the prices of books, rules, etc., of the Metric System can be obtained from the Decimal Association, Finsbury Court, Finsbury, Pavement, B.C.

**American Road Builders' Association.**—A small pamphlet issued by The American Road Builders' Association, 150 Nassau St., New York City; contains plan and purposes of the organization, its constitution, by-laws and the officers for 1911.

**The Report of the Health of the City of Manchester, 1910.**—A report by James Niven, giving a statistical review of the diseases, and including the work done by the Department of Health of Manchester, under the different regulations. A resumé of the work of the Sanitary and Cleansing Departments is also included.

**The Works of Messrs. Escher-Wyss Company, Zurich, Switz.**—Messrs Escher-Wyss Company have forwarded a handsome pamphlet entitled "The Works of Messrs. Escher-Wyss & Co.," being the reprint of an article published in Engineering, July 21, 1911. It includes a very complete description, well illustrated, of their work at Zurich, Switzerland.

**Astronomical Field Tables.**—A pamphlet issued by the Topley Company, of Ottawa, importers of scientific and surveying instruments. This is a sample of their astronomical field tables for the use of engineers and surveyors. Tables of the same kind have been in use for a number of years on the survey of Dominion lands, and are much appreciated by Dominion land surveyors, but they do not extend south of latitude 49 degrees. Since it is necessary in making the calculations to know the number of the township, these tables were not suitable in places surveyed otherwise than under the Dominion system. The Topley Company's tables extend from latitude 45 degrees to 53 degrees north, and as the latitude is shown, they can be used anywhere between those limits. The tables are for the determination of the meridian and local time. Their main object is to dispense with night observations and thus avoid the troubles and discomforts peculiar to artificial illumination.

**Report on Mining Operations, Province of Quebec, 1910.**—This is a report by the Department of Colonization, Mines and Fisheries, the Mines Branch, of the Province of Quebec. It includes a review of the Quebec mining laws, the mineral production of the province, under the different headings of the minerals, with a description of the different mining districts. This pamphlet is a book of 104 pages, very well printed and well illustrated by many half-tones.

**Uses of Commercial Woods of the United States.**—Bulletin 99, Forest Service of the U.S. Department of Agriculture. This is the second pamphlet on the uses of commercial woods, covering the pines of the United States, and is a most valuable compilation. It covers all the different types of pines found in the United States, with the description of their physical properties, supply, early uses, manufacture and product, etc.

**Annual Report of the City Engineer of Toronto, 1911.**—The City Engineer's annual report is a most comprehensive and valuable one. The preface gives some interesting statements concerning the city, its institutions, and various muni-

cipal departments. The report contains 246 pages, and is well illustrated with many half-tones and photographed drawings. It includes a concise account of the various works carried on in the city of Toronto during the year 1910, and contains some interesting costs on the different works.

The report is most exhaustive and complete, and will be valuable for reference purposes.

**The Twentieth Annual Report of the Bureau of Mines, 1911.**—This report contains 301 pages and includes many papers of exceptional interest. The contents include, among other things, a statistical review, a chapter on Mining Accidents, a description of the Thunder Bay silver region, and the report of Prof. M. B. Baker, who investigated the lignite deposits near the Mattagami River. This report is reproduced on the first page of this issue. Mr. T. W. Gibson's Statistical Review is an exceedingly interesting one, his summary being a model of careful condensation. The report is a most valuable one and should be in the library of every engineer.

### CATALOGUES RECEIVED.

**Pioneer Asphalt.** A pamphlet describing the different products of the American Asphaltum and Rubber Company, and showing views where the material has been used. Copies may be obtained from the American Asphaltum & Rubber Company, 614 Harvester Building, Chicago.

**Graphite Lubrication.** An address by Dr. Edw. Acheson, describing different types of graphite manufactured by the company, namely "Aquadag" and "Oildag," with their advantages as a lubricant. Acheson Oildag Company, Port Huron, Mich.

**Drag Scraper Buckets.** The new type of drag scraper buckets, manufactured by the Hayward Company of New York, is described in their pamphlet No. 576.

**Cutler and Surface Grinders.** Circular No. 168, issued by the Garvin Machine Company, describing their different types of grinders.

**The Priestman Ejector.** We have received advance proofs of a catalogue, on the Priestman Ejector System, to be published shortly by Merritt & Company, Camden, N.J.

**Gas Engines.** Bulletin No. 38 of the Camden Foundry Company, Limited, Toronto, describing their different types of gas engines.

**Transformers.** The Canadian Moloney Electric Company of Windsor, Ont., forward pamphlet illustrating their different types of transformers.

**Grantoid.** A pamphlet, well illustrated, forwarded by the Rudolph S. Blome Company, describing their patented Grantoid Concrete Pavement. Copies may be obtained from the company's general offices, Bank Floor, Unity Building, Chicago.

**Friction Clutches.** A pamphlet issued by Thomas Broadbent & Sons, Ltd., Huddersfield, describing their automatic friction clutches.

**Atlas Crude-Oil Engine.** Bulletin No. 201 of the Atlas Engine Works, Indianapolis, describes their crude-oil engines of the Diesel type, and includes a report of test of one of these engines in June, 1911, by C. E. Sargent, Consulting Engineer of Chicago.

**Second-Hand Machinery.** The Willis Shaw Machinery Company, of Chicago, Ill., forward pamphlet giving list for September of second-hand machinery for sale by them.

**Sewage Filters.** The Pacific Flush Tank Company, of Chicago, forward a very artistic pamphlet illustrating various