

**Electric Motors, Direct and Alternating.** By David Penn Moreton, B.S., E.E. Published by Frederick J. Drake & Co., Chicago. 24 pages, illustrated,  $4\frac{1}{4} \times 6\frac{3}{4}$  ins. Price, \$1.00 cloth binding; \$1.50 leather.

In this book the author deals with the subject in such a way that it will be of the greatest assistance to the practical electrician.

The first few chapters of the book deal with the first principles of electrical and magnetic circuits; Chapter 4 treats of the common methods of measuring current pressure resistance and power; Chapters 5 and 9 are given over to the treatment of armature windings for direct and alternating current motors; Chapters 6, 7 and 8 are devoted to descriptions of the various types of current motors, their construction and operation. In Chapters 10, 11 and 12 are given descriptions of the various types of alternating-current motors, as well as methods of starting and operating and the general care of such motors.

#### PUBLICATIONS RECEIVED.

**Ontario Railway and Municipal Board.**—Tenth annual report to December 31st, 1915.

**Regulations Respecting Township Road Superintendents, 1916.**—Appendix to the annual report of the Ontario Department of Public Highways.

**Queen Victoria Niagara Falls Park.**—Thirtieth annual report, 1915, of the commissioners for the Queen Victoria Niagara Falls Park, Niagara Falls, Ont.

**Geology of the Nanaimo Map-Area.**—Memoir 51, being No. 43 of the Geological Series, Geological Survey, Department of Mines, Ottawa, by Charles H. Clapp.

**Melting Aluminum Chips.**—Bulletin 108, Mineral Technology 14, of the Department of the Interior, Washington, D.C., by H. W. Gillett and G. M. James.

**Road Construction.**—For township road superintendents and overseers. Appendix to the annual report of the Department of Public Highways of Ontario, 1916.

**Late Pleistocene Oscillations of Sea-level in the Ottawa Valley.**—By W. A. Johnston. Museum Bulletin No. 24. Geological Series No. 33, Department of Mines, Canada.

**Progress Reports of Experiments in Dust Prevention and Road Preservation, 1915.**—Bulletin No. 407 of the United States Department of Agriculture, Washington, D.C.

**Sewage Disposal.**—Report of the highway and sewerage committee of the city of Sheffield, England, for the year ended March 25th, 1916. Manager, John Haworth, F.C.S.

**Map of Manitoba, Saskatchewan and Alberta,** prepared in the Railway Lands Branch, Department of the Interior, Ottawa, under the direction of F. C. C. Lynch, superintendent.

**Seventh Annual Report** of the Board of Supervising Engineers, Chicago Traction, covering the fiscal year ended January 31st, 1914. Published by the Board, Chicago, Ill., 1916.

**The Pleistocene and Recent Deposits of the Island of Montreal.**—Memoir 73, being No. 58 of the Geological Series, Geological Survey, Department of Mines, Ottawa, by J. Stansfield.

**Economic Surveys of County Highway Improvement.**—Bulletin No. 393 of the United States Department of Agriculture, Washington, D.C., by J. E. Pennybacker and M. O. Eldridge.

**Chemical and Biological Survey of the Waters of Illinois.**—Report for year ended December 31st, 1914, issued by the University of Illinois, Urbana, Ill. Edward Bartow, Director.

**Metal Mines and Smelters in Canada.**—List of metal mine and smelter operators in Canada. Issued by the Mines Branch, Department of Mines, Ottawa. Eugene Haanel, Ph.D., Director.

**Weathering of Coal.**—Extra volume supplementing Report No. 83 on the Coals of Canada. By J. B. Porter, E.M., Ph.D., D.Sc. Published by the Mines Branch, Department of Mines, Ottawa.

**Conservation of Fish, Birds and Game.**—Report of the proceedings of the committee, Commission of Conservation, Ottawa, on fisheries, game and fur-bearing animals, at their meeting on November 1st and 2nd, 1915.

**Modules and Uniform Discharge Devices for Irrigation and Waterworks.**—Reprint from proceedings of the Institute of Mechanical Engineers of Great Britain. Paper presented by Hugh Munroe, member of the Institution.

**The Trent Valley Outlet of Lake Algonquin and the Deformation of the Algonquin Water-Plane in Lake Simcoe District, Ontario.**—By W. A. Johnston. Museum Bulletin No. 23, Geological Series No. 32, Department of Mines, Canada.

**The Concrete Road.**—A paper prepared by Edward N. Hines, chairman of the Board of County Road Commissioners, Wayne County (Mich.), and read before the meeting of the Portland Cement Association, in Detroit, September 13, 1916. Published by the Portland Cement Association, 111 West Washington Street, Chicago, Ill.

**Structural Steel Specifications.**—Reprint of the standard specifications for structural steel for bridges and buildings, as recommended by the Canadian Society of Civil Engineers and adopted by the Dominion Bridge Co., Limited, Montreal. The latter firm have printed the specifications in very neat form for gratuitous distribution to engineers. They are bound in flexible leather and are presented in very handy reference form, with index, memorandum pages, etc.

#### CATALOGUES RECEIVED.

**Cold Saw Cutting-off Machines.**—Catalogue No. 51 of the Newton Machine Tool Works, Inc., Philadelphia, Pa. Contains 51 pages and is well illustrated.

**Safety Code** for the use and care of abrasive wheels and the parts of grinding machines related thereto. A 13-page leaflet issued by the Star Corundum Wheel Co., Detroit, Mich.

**Pedlar's Saino All-Metal Fire Door.**—A 36-page illustrated booklet issued by The Pedlar People, Limited, Oshawa, Ont., giving complete technical information regarding this well-known fireproofing product.

**Star Grinding Wheels.**—Catalogue No. 9 of the Star Corundum Wheel Co., Detroit, Mich., describing the making of Star grinding wheels by three distinct processes, *viz.*, vitrified, silicate and elastic. Contains 99 well-illustrated pages.

**London Concrete Mixers.**—Illustrated booklet issued by The London Concrete Machinery Co., Limited, London, Ont., describing their different types of mixers. The booklet also contains a number of testimonials from firms who have purchased mixers.

**Building Construction.**—Second edition of a booklet issued by the Stone and Webster Engineering Corporation, Boston, Mass., describing and illustrating industrial plants, office and educational buildings, power stations and warehouses constructed by the company.