

1. Units, by Otis Allen Kenyon. 2. Electric and Magnetic Circuits, by Otis Allen Kenyon. 3. Measurements and Measuring Apparatus, by Otis Allen Kenyon. 4. Properties of Materials, and (5) Magnets by Otis Allen Kenyon. 6. Transformers, by A. S. McAllister, Ph.D. 7. Electric Generators, by H. M. Hobart and Otis Allen Kenyon. 8. Electric Motors, by A. S. McAllister, Ph.D. 9. Batteries, by Edward Lyndon. 10. Central Stations, by R. C. Beardsley and George Shaad. 11. Transmission and Distribution, by Arthur Vaughan Abbott and Otis Allen Kenyon. 12. Illumination, by Louis Bell, Ph.D. 13. Electric Traction, by A. H. Armstrong. 14. Electro-Chemistry, by E. F. Roeber, Ph.D. 15. Telephony, by Kempster B. Miller. 16. Telegraphy, by Otis Allen Kenyon. 17. Miscellaneous Applications of Electricity, by Otis Allen Kenyon. 18. Wiring, by William H. Onken. 19. Standardization Rules. 20. Tables and Statistics.

The index covers 54 pages, and is a combination of topical and alphabetical indexing, and a notable feature is the method used, all references and cross indexing being made to section and paragraph, each paragraph being numbered. This facilitates the use of data and material. The use of curves for presenting data is to be commended, the graphical method in many cases having a distinct advantage over tables, inasmuch as the law governing the phenomena can be readily seen, and it gives data for any set of conditions without the necessity of interpolation. The section on Transmission and Distribution will be very acceptable to experts on this work for the useful tables and data it contains. The subject matter has been logically arranged, and the work is first-class, the illustrations numerous, and the uniform use of symbols throughout is commendable, although the book is not altogether free from errors, which could hardly be expected in the first edition of a book covering such a vast amount of data and material. A number are typographical, but a few have been carried through the tables, but these are readily found, and it suffices to say that every electrical engineer should find it of much value; it will also prove a mine of information to the students and a valuable handbook for the practical engineer.

F. A. G.

Profit-making in Shop and Factory Management.—By Charles U. Carpenter. Publishers, the Engineering Magazine, New York. Size, 6 x 9; pages, 146.

Profit-making is a fascinating subject in any sphere; in factory management it is not only fascinating, but necessary.

During 1907 Mr Charles U. Carpenter, president of the Herring-Hall-Marvin Safe Co., contributed to the Engineering Magazine a series of articles on Profit-making in Shop and Factory Management. These articles have been revised, enlarged and rearranged, and are now offered in book form. The suggestions are practical, concise, yet complete, and give evidence of being the ideas of an experienced manager or superintendent. The field covered is large, including Reorganization; the Committee System; Reports: Their Necessity; The Functions and Results to be obtained from the Various Departments; the Wage System; Stock and Cost; the Selling Department, and the Organization in the Executive Department.

PUBLICATIONS RECEIVED.

Falls of Niagara.—A report by Dr. J. W. W. Spencer, F.G.S., dealing with their evolution and varying relations to the Great Lakes; the characteristics of the power, and the effects of its diversion. Issued by the Department of Mines, Geological Survey Branch, Ottawa, Canada. Size 6 x 10, page 490, illustrated.

General Contracts for Structures of Reinforced Concrete With Brick or Timber is the title of Circular No. 16, issued by the Aberthaw Construction Company, of Boston, Mass. It describes various contracts executed by this company, includ-

ing the Harvard Stadium, the standpipe at Attleboro', Mass., which is the largest yet built, various textile and paper mills, fireproof structures, dams, coal pockets, residences, etc.

Mining Operations in Quebec.—The report for the year 1907, of J. Obalski, Superintendent of Mines for Quebec. Besides a brief statement of mining operations for the year it also gives an account of explorations north of Pontiac and the survey of Lake Temiscamingue.

CATALOGUES AND CIRCULARS.

Steel Concrete Chimneys.—The Weber Steel Concrete Chimney Co. of Montreal, rooms 36-36a Guardian Building, tell in this booklet of the steel concrete chimney, as to design, construction, economy, life and stability. Size, 4 x 10.

Machine Tools.—Broom and Wade, High Wycombe, England, London office, 27 Clements Lane, are distributing descriptive catalogues of their high-speed oil engine, air compressors and machine tools.

Fan Motors.—The Canadian Westinghouse Company, Limited, Hamilton, Ont., are distributing a very pretty and complete catalogue of electric fan motors. Both direct and alternating current fan motors are listed. Pages 40, size, 6 x 9.

Electric Switches.—The Hill Electric Switch Company, 1560 St. Lawrence Boulevard, Montreal, have issued a bulletin, size 6 x 8, describing their type D switches.

Roller Bearing.—Hyatt Roller Bearing Company, Newark, N.J., in Bulletin No. 31 outline the benefits of roller bearings and give dimensions of over 300 sizes. The Hyatt bearing is applicable to hundreds of forms of machinery and will effect economies in friction loads. They have been adapted as a standard by many prominent manufacturers, who have been desirous of increasing the saleability and efficiency of their products.

Gaskets.—The Smooth-On Manufacturing Company, Jersey City, N.Y., will be pleased to send a sample Smooth-On Coated Corrugated Gasket free to any engineer sending his name and business address; also one of the circulars regarding this gasket.

Electric Supplies.—The Concordia Electric Wire Company, 64 Salisbury Road, London, Eng., have for distribution a series of catalogues describing their cable connections, adjustable armature coil winding and pipe bending machines.

Gas Engines.—The Bruce-Meriam-Abbott Company, Cleveland, Ohio, are distributing a catalogue describing their two and four cylinder type vertical gas engines.

Engine Specialties.—The Lunkenheimer Company, of Cincinnati, Ohio, have issue a 570 page illustrated catalogue and price list describing many specialties in brass and iron valves, whistles, gauges, injectors, lubricators. The catalogue also contains some 50 pages of tables. This very complete handbook will be furnished to engineers upon request.

TO DEVELOP JAP WATERPOWERS.

The development of the water power of Japan has been undertaken by a Japanese-English-American syndicate. At a meeting held recently \$6,000,000 was pledged for this purpose, Japanese contributing half of the amount.

The city of Hamilton, Ont., with a population of 65,000 people, consumed for all purposes during 1907 134,130,191 imperial gallons of water. To pump this water required one million pounds of coal (slack, not mine run).