

**"Sanitary Engineering."**—By Colonel E. C. S. Moore, R.E. Third edition, two volumes, revised, and in part rewritten, by E. I. Silcock, M. Inst., C.E. Published by B. T. Batsford, High Holborn, London, in two volumes. Pages, 950; tables, 160; illustrations, 920; price, \$12.00.

This edition recently published forms a complete up-to-date book of reference on sanitary engineering, and will at once take its place as a leading treatise on the subject. In fact since the now out of date publications by Baldwin, Latham & Baily Denton, no such complete and extensive work has been placed on the market. Vol. 1 deals with Sewerage, Hydraulics, Sewer and Drain Ventilation, Sanitary Fittings and Apparatus; while Vol. 2 includes Land Drainage, Sanitary Notes, Sewage Disposal, Refuse Destructors, Trade Effluents, and Sewage Fungus.

In preparing the present edition Mr. Silcock has kept as far as possible to the general arrangement adopted by the late Col. Moore, but the work is brought entirely up-to-date, and much new and valuable information added dealing with the recognized methods of **Sewage Purification and Sewage Ventilation**. The large number of complete plates including plans and details of modern works will be found most useful, both to the student and practising engineer. A résumé of the reports of the Royal Commission on Sewage Disposal form part of the work. New and valuable information is introduced upon questions of:—"Rainfall in Sewers," "Sewage Lifting," "Trade Effluents," "Sewage Fungus," etc.

The standard value of Moore's hydraulic tables have universal recognition, and the practical and useful manner in which they are presented for easy reference will appeal to every sanitary engineer.

On going through the two volumes, it appears impossible to point to any one subject in connection with sanitary engineering which is not fully dealt with. Even questions in detail on plumbing are just as carefully gone into in detail as more important engineering subjects.

We must certainly advise every engineer on public health questions to see to it that he has these two valuable volumes within reach for immediate reference.—T. A. M.

**Modern Methods of Street Cleaning.**—By Geo. A. Soper, Ph.D., M.A.S.C.E. Published by the Engineering News Publishing Company, New York. Price, \$3.

This edition is largely the result of a three months' visit to Europe in 1907 by the author, in order to collect notes for an advisory commission on street cleaning for New York, appointed by Mayor McClellan. Much valuable statistical information is given in connection with several large European cities, including London, Paris and Berlin. A comparison is made between foreign methods of street cleaning and those in vogue in New York City.

Valuable information is supplied generally upon such questions as "Reason for extravagance and inefficiency in street cleaning," "Preventable and Unavoidable Littering," "Public Receptacles for Refuse," "General Methods of Street Sweeping," and the "Use of Water in Cleansing Pavements," etc. The volume is of great practical interest and should prove of considerable value to those in authority over street cleaning departments.—T. A. M.

**Investigation of the Peat Bogs and Peat Industry of Canada**, by Erik Nystrom, M.E., and S. A. Aurep, M.E. Bulletin No. 1 Department of Mines, Ottawa. Pages 25. Size, 6 x 9.

The importance of the peat fuel industry to the central portion of Canada, where coal fuel is non-existent and its importation so comparatively costly, requires no demonstration.

The mines branch of the Department of Mines, Ottawa, issued a year ago a report on "Peat and Lignite, their Manufacture and Uses in Europe," with the object of giving to Canadians as complete a review as possible of this industry in those countries in which it has been most successfully carried on.

This report is now followed by a bulletin entitled "The Investigation of the Peat Bogs and Peat Industry of Canada during the season of 1908-09," by Erik Nystrom, M.E., peat expert. This bulletin comprises 25 pages of text, and includes six large scale maps of the following peat bogs:—

1. Mer Bleue, near Ottawa.
2. The Alfred Peat Bog, about 40 miles from Ottawa.
3. The Welland Peat Bog, about six miles north of Welland.
4. The Newington Bog, on the New York and Ottawa Railway, and about 40 miles from Ottawa.
5. The Perth Bog, a mile and a half from Perth.
6. The Victoria Road Bog, about a mile from Victoria Road Station on the Midland division of the Grand Trunk Railway.

The bulletin contains a descriptive report of each bog, showing the location, area, and structure, and giving an estimate of the available supply of peat fuel with records of analyses, calorific value, etc., and should be of particular interest to those engaged in or connected with, the development of Canadian peat resources.

A fuel testing plant is now being erected at Ottawa, in which the value of peat for the production of power gas will be demonstrated, and the Department proposes to carry on a very thorough investigation of this subject.

Copies of the above Bulletin and Report on Peat may be had on application to Dr. Haanel, Director of Mines, Ottawa.

**A Brief History of Cements.**—An interesting booklet written by I. C. Johnson, of Mayfield, Gravesend, England, and published by the Cement Record Company, Kansas City, Mo. The original invention and early history of Portland cement is not in general thoroughly understood. As the preface states, text books on cement and concrete mention those men who have gained fame through inventions that have aided the industry to develop to its present stage, but the early history and those who were first to understand this material and the difficulties, etc., under which they labored has been but little touched upon. This book contains a biography of Mr. Johnson, a brief history of cements, as well as other information as to the early days of its manufacture that will be read with interest. It is well illustrated. The price is fifty cents.

**Railroad Promotion and Capitalization in the United States**, by Frederick A. Cleveland, Ph. D., and Fred Wilbur Powell, A. M. Longmans, Green, & Company, publishers, 91 and 93 Fifth Avenue, New York, U. S. A.

Over three hundred pages of valuable information, gathered from many sources, carefully classified and indexed, constitute a volume whose scope is practically unlimited. Each of the eighteen chapters teems with data affecting the administration and affairs of railroads that is available in no other single publication.

Notes regarding the conditions existing in the 18th century—the first era of transportation development—are given in the opening chapters. Early accounts of the railway, views expressed in 1802 as to the practicability and the advantages of a general system of railroads, and much early history of the locomotive, including references to the men responsible for the first steam engines built, together with a few pages devoted to the situation in America at that time, comprise Chapter III. Observations apropos of the effect of