

The Builders' Auxiliary, published by the Builders' Auxiliary Company, Corner Montcalm and Magog Streets, Sherbrooke, Que.

The Builders' Auxiliary is a series of books published with the purpose of making it easy for the architect and contractor or the engineer and contractor to estimate accurately and quickly the material required and the time it will take for construction and erection. The Estimate and Cost Sheets, which is their largest publication, is a loose-leaf system, and is accompanied by a number of smaller books such as the Material Book and the Time Book. The complete set costs \$5.00.

It is practically a carefully arranged, thumb-indexed list, loose-leaf system, and contains all the necessary and imaginable departments and sub-divisions for the careful estimator for all classes of construction together with a book for the keeping of the men on the work.

Not only will it save time in estimating, but it will make it almost impossible for the estimator to miss details which, without the schedule supplied by these publications, he would be in danger of overlooking. They will be found very useful for those having to do with construction work.

Highways of New York State, size 6 x 9, pp. 525, issued by the State Board of Highways for New York State, Albany, N. Y.

This report is a Government report published by a State Commission of Highways for New York, consisting of S. Percy Hooker, T. Warren Allen and Robt. Earle, and is for the year ending December 31st, 1909.

The report is very extensive and goes fully into the matter of highway construction for the State, some hundred pages being taken up with descriptions of the work done and the method of procedure. The remainder of the book is made up of tables and statistics showing cost of construction and repairs by counties.

The several inserts are particularly interesting, the first one showing by diagram, the general method of organization under the Commission. The second shows the average high and low bids on 212 roads in the State. The third shows the average cost of road construction by counties, while the fourth shows the amount spent for each year since 1889 on State highways in New York State.

In the reports of some of the deputies, interesting cost data has been furnished, showing the cost of grading, adding metal, oiling and surveying; and while it shows the cost proportion to the different departments of work, and the total cost of the work in this way gives considerable valuable information, yet amounts rather than time are given, thus losing considerable of the value.

Altogether the report is one of the most valuable on highway construction that has reached us this year.

Field Practice on Railway Location, by Willard Behan, size 6 x 3, pp. 250, price \$3.00. Published by the Engineering News Publishing Company, New York, N.Y.

The author of this book is division engineer of the Chicago and North Western Railway, and was formerly chief of locating party of Gould's South Western system of railways.

The object of the book is to present briefly and concisely, the methods commonly used by American engineers in locating steam railways.

Although we have a number of good books on railway maintenance, railway structures and track, for the locating engineer, the number of books is very limited, possibly because although the locating engineer may be a great reader, his opportunities for writing are not so good.

Select List of Engineering Books

IRRIGATION.

Practical Irrigation, Its Value and Cost.—By August J. Bowie, Jr. 252 pages, 6 x 9, 53 illustrations, \$3.00. Contains 100 tables of comparative cost, dimensions, capacities, design of reservoirs, wells, etc.

Irrigation Engineering.—By Herbert M. Wilson, Chief Engineer, N.S., Geological Survey. 6th edition, 625 pages, \$4.00.

Reservoirs, for Irrigation, etc., by James Dix Schuyler, 573 pages, \$6.00.

Practical Design of Irrigation Works.—By W. G. Bligh, \$6.00.

Irrigation Principles and Practice.—By Hanbury Brown, \$5.00.

POCKET BOOKS.

Molesworth's Pocketbook of Useful Formulæ, Memoranda, Tables, etc., for Civil and Mechanical Engineers. Twenty-fourth edition, thoroughly revised to date, rewritten and greatly enlarged, with an Electrical Section. 843 pages, limp leather, \$2.00.

Mathematical Handbook.—By Edwin P. Seaver, formerly Assistant Professor of Mathematics, Harvard University. 290 pages, 5 x 8½, 1,920 formulæ, 75 pages of tables, \$2.50.

Trautwine's Civil Engineers' Pocketbook.—Nineteenth edition, hundredth thousand, 1,257 pages, morocco binding, \$5.00.

Cost Data.—By H. P. Gillette. Second edition, 1,900 pages, leather binding. As a reference book on methods of construction of all classes of engineering works it merits a place in every engineer's or contractor's library. As a reference book on detailed costs it is obviously invaluable. \$5.00.

Building Foreman's Pocketbook and Ready Reference.—By H. G. Kichey, 1,118 pages, Morocco, \$5.00.

Architects' and Builders' Pocketbook.—By F. E. Kidder. 15th edition, revised. 1,703 pages, 1,000 figures, Morocco, \$5.00. Total issue, forty thousand.

Kent's Mechanical Engineers' Pocketbook. 16 mo, Morocco, \$5.00.

LIGHT AND POWER.

Hydro-Electric Practice.—By Henry A. E. C. Von Schon. A practical manual of the development of water-power, its conversion into electric energy and its distant transmission. 236 illustrations, 8vo., cloth, 348 pages, \$6.00.

Development and Electrical Distribution of Water-power.—By Lamar Lyndon. A purely engineering treatise. 158 illustrations, 8vo., cloth, 324 pages. New York, 1908. \$3.00.

Distribution of Electrical Energy.—By J. F. C. Snell. 169 illustrations, 8vo., cloth, 368 pages; net, \$7.50.

Long-Distance Electric Power Transmission.—By Rollin W. Hutchinson. A treatise on the hydro-electric generation of energy; its transformation, transmission and distribution. Second edition, 136 illustrations, 12mo., cloth, 345 pages, \$3.00.

Electric Power Plant Engineering.—By J. Weingreen. 420 pages, 6 x 9, illustrated, \$5.00.

Steam Power Plant Piping Systems.—By W. L. Morris, M.E. 490 pages, 6 x 9, 389 illustrations, \$5.00.

Water Power Engineering.—The Theory, Investigation and Development of Water Power. By Daniel W. Mead, Professor of Hydraulics, University of Wisconsin. 803 pages, 6 x 9, 413 illustrations, \$6.00. The standard work for both practice and instruction. It covers fully the details of the entire engineering problem from the first investigations to the completed plant.

Design and Construction of Hydro-electric Plants.—With special reference to the Design of Dams. By R. C. Beardsley. 520 pages, 6 x 9, 68 tables, 471 illustrations, \$5.00. A hydraulic and hydro-electric engineer's handbook.

Book Dept., Canadian Engineer, Toronto, Ont.