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BOOK REVIEWS.

Applied Statics.—T. R. Loudon, fourth edition, published by the Canadian Engineer Press, Toronto. 164 pp., 6¼ x 9. Many cuts; price, \$1.50.

This little volume has now arrived at the fourth edition. There is little change in this last edition, with the exception of new cuts. This has improved the appearance of the book a good deal. It was the intention in the first edition, to provide an elementary text, to be used in conjunction with the lectures on statics, as given in the Faculty of Applied Science at Toronto University. Many problems are introduced throughout the book of an elementary nature, as it is intended for the beginner.

Hydro-Electric Practice.—H. Von Schon, second edition revised and enlarged, published by Messrs. J. B. Lipincott Company, Philadelphia and London. 383 pp., 7½ x 10; fully illustrated; price \$6.00.

In this second edition the revision consists mainly of a detailed treatment of the market, flow, discussion, pondage, and storage, of Part I.; of development, scope and equipment in Part II., and of Part III, "Operating and maintaining the Plant." The author says that the tables of rivers' drainage areas and low run-off of navigable rivers, and the forms of government permits and licenses, have been taken out to make room for the above valuable matter, and because this information may now be readily obtained from government publications.

The book is well arranged, well written, with numerous and good illustrations. It presents some very good information in connection with low-head turbine installations of the open canal type, with details of many of the appurtenances, such as head gates, racks, etc. The book in some other respects is weak. For instance, the selection of the turbine and the regulation of the plant, is treated in a very cursory manner, indeed. The mathematical treatment of the problems throughout are not good.

On the other hand, the book forms a valuable addition to engineering literature in its treatment of the commercial side of hydraulic problems, with its analyses of cost of development and investigation of the market; and as such will be well received by the financier, the promoter and the engineer.

Mathematics for the Practical Man.—By George Howe. Published by the D. Van Nostrand Company, New York. 144 pp.; 5 x 8; price \$1.25.

In preparing this work the author says that he has been prompted by the following reasons:

The dearth of short but complete books covering the fundamentals of mathematics, and the tendency of those elementary books to treat the subject in a popular rather than in a scientific manner.

The book is one which should be in the possession of all engineers who have not had an opportunity to profit by a course of mathematics in regular and technical schools. The text is confined to fundamentals of algebra, geometry,

trigonometry, logarithms, co-ordinate geometry and the elementary principles of the calculus.

It is written in a very simple and concise manner and the problems attached to each chapter, with their solutions, form a valuable addition to the book, making it a valuable one for the man to whom it is designed to aid.

The Second Report of the Joint Committee of Reinforced Concrete.—The second report of the Joint Committee of Reinforced Concrete, formed under the auspices of the Royal Institute of British Architects, forms a volume of 48 pages. The report is the work of the Committee formed from the different technical societies in Great Britain, and should form an absolute essential in the library of any one interested in the subject of reinforced concrete.

In the explanatory note the Joint Committee say that their section on materials has been modified in certain details compared with the report of 1907. The section on methods of calculation has been recast in form, and the standard notation proposed by the Concrete Institute has been adopted. The sub-section on columns has been revised, and the formulae proposed have been recast, so as to include the cases in which the lateral or helical binding is a material factor in the strength.

There are eight appendices to the report, and their titles are as follows:

Calculations for Singly Reinforced Beams.
Shear Stresses in Reinforced Concrete Beams.
The Strength of Rectangular Slabs.
Strength of Pillars.

The Moment of Inertia of Sections of Reinforced Concrete.

Tensile and Shearing Stresses in Web Reinforcement.

Bach's Theory of the Resistance of Flat Slabs Supported on all Edges and Uniformly Loaded.

Comparison of the Results Given by Various Rules for the Strength of Flat Rectangular Slabs Supported on all Edges and Uniformly Loaded.

We have just finished publishing this report in full in the columns of the Engineer, with the exception of the appendices, as noted above. This report can be obtained from the office of the Joint Committee, Royal Institute of British Architects, 9 Conduit Street, Regent Street, London, England, at the price of one shilling.

Chemists' Pocket Manual.—Richard K. Meade, M.S. Published by William's and Norgate, London, Eng., and the Chemical Publishing Co., Easton, Pa. 443 pp., 4 x 6; 39 illustrations, price \$3.00.

In issuing this (the second edition), the author has rearranged the subject matter. Many new tables have been compounded and added, and the analytical methods have been increased by much new and useful material. This little book would doubtless prove of value to the plant chemist and the chemical engineer, presenting as it does much matter and material that is usually found in appendices of manuals on chemistry and chemical analyses, among which might be mentioned weights and measures, mathematical matters, international atomic weights, stoichiometry,