

ments and highways. It places simply and concisely before the reader the principles and reasons for the best highway practice and should prove very serviceable in the field for which it was intended.

Rainfall Reservoirs and Water Supply. By Sir Alexander R. Binnie, M. Inst. M.E., F.G.S., F.R.M.S., M.R.I. Publishers, Constable & Company, Limited, London, England. Size, $5\frac{1}{4} \times 8\frac{1}{2}$ ins.; cloth; 157 pp.; illustrated. Price, \$2.50.

This book is founded upon the Chadwick Trust Lectures delivered by the author at the Institution of Civil Engineers in February, 1912. The object of this treatise is not so much that it might be regarded as a treatise on waterworks engineering, but more particularly to illustrate some of the salient points connected with what the author regards as one of the most difficult branches of engineering. The book deals with the questions of water and water supply in their broadest aspects, and goes into the question of the sources of supply; gravitation versus pumping; drainage areas; rivers and pumping works; aqueducts; conduits; intensity of floods; evaporation, etc. The chapter on filtration contains a number of illustrations of mechanical filters, including the Bell, the Mather and Platt, and Ransome filters. The book is fully illustrated and will doubtless prove of great interest to all students of the subject. A feature of the book which deserves a special commendation is the full cross index. It enables one to find in the minimum of time just what he wants. The book contains 56 plates and tables, and the data gathered together are drawn from various parts of the world, but particularly from Great Britain. The book will have a very special interest for Canadian engineers, in that its author was recently in Canada, having been called in company with Dr. Houston by the city of Ottawa to report on the water problem as applied to that city.

Reinforced Concrete Bridges. By Mr. Frederick Rings, M.C.I., M.S.A., C.E. (Ger. Inst.) Architect and Consulting Engineer. Published by Messrs. Constable & Company, London, England. Size, $7\frac{3}{4}$ ins. x 11 ins.; 186 pp. Price, \$6.25 net.

The book is devoted specifically to the use of reinforced concrete with special reference to bridge work, and includes what to the author seems the most important features and facts the designer of bridges should be acquainted with. The bridges illustrated comprise a large variety of types common to the bridge engineer. The book discusses the advantages and disadvantages of reinforced concrete for bridge work. The question of waterproofing materials to be used, etc., is taken up in the introductory chapter. The succeeding chapters are devoted to Bending Moments, Stresses and Strains; Loads on Bridges and External Stresses; Culverts, Coverings, Tunnels, etc.; Beam Bridges; Calculation of Girder Bridges and Work Examples; Design of Arched Bridges and Abutments; Examples of Arched Bridges; etc. The work is most profusely illustrated by very excellent photos and line engravings, and will doubtless be welcomed by bridge engineers interested in reinforced concrete design and construction as a valuable addition to the literature on the subject. It contains a number of folding diagrams and from pages 158 to 181 there are a series of tables which will be found exceedingly useful to bridge engineers generally.

Rules and Regulations for Inside Electrical Installations.

This is a book of rules issued by the Hydro-Electric Power Commission of Ontario and contains 129 pages. It discusses the subjects of installation work, wiring electric plants, grounding, maintenance and operation, and also instructions on resuscitation from electric shock. The book is illustrated

and will be found of special interest to everyone who is connected with the installation or operation of electric plants of any kind whatever.

PUBLICATIONS RECEIVED.

Canadian Peat Society.—Illustrated journal issued by Canadian Peat Society, Castle Building, Ottawa, Ont.

United States Department of Agriculture.—Monthly list of publications as received by the department, Washington, D.C.

Ore Dressing and Metallurgical Laboratory.—Bulletin 160. Issued by the Mines Branch, Department of Mines, Ottawa.

Revenues and Expenses of Steam Roads for January, 1913.—Bulletin No. 50. Issued by Interstate Commerce Commission.

Annual Report of the Philadelphia Bourse.—Twenty-second annual report as presented by the directors' meeting of May 13, 1913.

Canadian Forestry Journal.—Sixty-four page journal dealing with forest conservation. Issued by the Canadian Forestry Association, Ottawa.

American Society of Mechanical Engineers.—Illustrated journal published by the society, May, 1913. Address, 29 West 39th Street, New York.

Specification of Peebles' Standard Turbo Alternators.—Specifications of alternators. Issued by Bruce, Peebles & Company, Limited, Edinburgh.

Mine Inspector of the Territory of Alaska.—Report of mine inspector for the fiscal year. Issued by the Department of the Interior, Washington, D.C.

Forest Service Investigations.—Illustrated review of the work conducted by the Forest Service; issued by Henry S. Graves, United States Department of Agriculture.

Patents.—Illustrated official journal of patents of Great Britain, April 9, 1913. Issued by the Patent Office, Southampton Building, Chancery Lane, London, W.C. Price, 6d.

Forest Conditions.—Illustrated bulletin issued by T. W. Dwight, M.F., Department of the Interior, Canada, on forest conditions in the Rocky Mountains forest reserve.

Selection of Explosives.—Illustrated bulletin on the selection of explosives used in engineering and mining operations. Issued by the Department of the Interior, Bureau of Mines, Washington, D.C.

American Railway and Bridge Building Association.—Proceedings of the 22nd Annual Convention, held at Baltimore, October, 1912. 9 ins. x 6 ins.; 295 pp.; numerous illustrations. Price, \$1. Apply C. A. Lichty, secretary, 26 West Jackson Boulevard, Chicago, Ill.

Good Roads.—Hearings before the Joint Committee in the Construction of Post Roads, January 21st, 1913. Part I; 9 ins. x 6 ins.; 220 pp. Apply A. W. Prescott, secretary, Joint Committee on Federal Aid in the Construction of Post Roads, Washington, D.C.

Tests of Reinforced Concrete Buildings Under Load.—An interesting, illustrated bulletin on the tests of three large buildings, by A. W. Talbot and W. A. Slates. Copies may be obtained from the Engineering Experiment Station, University of Illinois, Urbana, Illinois.

Report on the Traction Improvement and Development of the Toronto Metropolitan District.—A most exhaustive report taking in all phases of transportation as it affects Toronto and outlying districts. The text of the report covers present traffic conditions; car lines recommended; cars and service requirements; costs and returns. Contains twenty-six photographs and drawings. Forty-eight 6 x 9 ins. pages.