

abundant Latinisms, ambiguous phrases, and awkward statements reveal that this process has not been very successfully accomplished in the present instance.

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BOOKS RECEIVED.

Plane Trigonometry. DANIEL A. MURRAY. New York, London and Bombay. Longman's Green & Co. 1899. Pp. xiii + 95.

Irrigation and Drainage. F. H. KING. New York and London, The Macmillan Company. 1899. Pp. xxi + 502. \$1.50.

The Logical Bases of Education. J. WELTON. London and New York, The Macmillan Co. 1899. Pp. xvi + 288. \$1.00

Muscle, Brain and Diet. EUSTACE H. MILLS. London, Swan, Sonnenschein & Co. New York, The Macmillan Company. 1900. Pp. xv + 339.

Elementary Chemistry. ALBERT L. AREY. New York and London, The Macmillan Co. 1899. Pp. xi + 271. 90 cents.

Plant Structures. JOHN M. COULTER. New York, D. Appleton & Co. 1900. Pp. ix + 349.

Central Station Electricity Supply. ALBERT GAY and C. H. YEAMAN. London, Wittaker & Co. New York, The Macmillan Co. 1899. Pp. xiii + 467. \$3.00.

Water and Water Supplies. JOHN C. THRESH. Philadelphia, Pa., Blakiston's Sons & Co. 1900. Pp. xx + 438. \$2.00.

A Text-book of Physics. W. WATSON. London, New York and Bombay. 1899. Pp. xii + 896. \$3.00.

SCIENTIFIC JOURNALS AND ARTICLES.

THE New York Botanical Garden has begun the publication of a monthly journal to contain notes, news and untechnical articles of general interest. It is edited by Dr. D. T. MacDougal, director of the laboratories, and is sent free to members of the Garden. The first number, containing sixteen pages, opens with an article on the Museum building by Dr. N. L. Britton, with a plate, and this is followed by short unsigned articles on 'Coöperative Forestry,' 'Etiolated Plants as Food,' 'Micorhizas of Orchids' and 'Colors.' At the end there are notes on recent accessions to the Gardens and on other subjects of botanical interest. The New York Botanical Garden now has four series of publi-

cations. The *Journal* just mentioned, the *Bulletin*, containing official documents and technical articles, *Memoirs* and *Contributions*, the latter being reprints from other journals.

THE December number of the *Bulletin of the American Mathematical Society* contains a report of the October meeting of the Society, by the Secretary; 'Note on the Simply Transitive Primitive Groups,' by Dr. G. A. Miller; 'On the Commutators of a given Group,' by Dr. G. A. Miller; a review of Ultramare's 'Calcul de Généralization,' by Professor E. O. Lovett; 'Shorter Notices'; 'Notes'; 'New Publication.' The January number of the *Bulletin* contains the Presidential Address of Professor R. S. Woodward. 'The Century's Progress in Pure Mathematics,' delivered at the annual meeting of the Society, December 28, 1899; 'The Status of Imaginaries in Pure Geometry,' by Professor Charlotte Angas Scott; 'Notes'; 'New Publications.'

SOCIETIES AND ACADEMIES.

GEOLOGICAL SOCIETY OF WASHINGTON.

AT the 94th meeting and 7th annual meeting, held December 13, 1899, the following officers were elected for the ensuing year: *President*, Whitman Cross; *Vice-Presidents*, J. S. Dilller, C. W. Hayes; *Treasurer*, M. R. Campbell; *Secretaries*, F. L. Ransome, David White; *Members-at-large of the Council*, G. P. Merrill, Bailey Willis, A. H. Brooks, Waldemar Lindgren, G. O. Smith.

THE 95th regular meeting was held January 10, 1900. Under informal communications Mr. G. P. Merrill exhibited and briefly described a nepheline-melilite-basalt from Rocky Hill, Oahu, where it had been found in place by Professor C. H. Hitchcock. It was stated that while a rock of this type had been previously described by Wichmann and others from fragments brought by vessels as ballast, this was, it was believed, the first discovery of the rock in place.

Under the regular program the following papers were presented:

(1) Mr. Joseph A. Taff: 'Structural Features