

solution tension, and single potential. Electrochemistry is discussed in some detail.

It is evident that it is the desire of the author to be up-to-date. Current journals are quoted, and the opinions of American chemists on mooted points are given. For example, the student who is approaching the subject of osmotic pressure for the first time is given the usually accepted definition of the term. Then follows the definition of a chemist who takes exception to the statement given, and, finally, a third chemist is quoted as expressing the view that neither statement is entirely satisfactory. The mental state of the beginner, to whom the subject of osmotic pressure is more or less abstruse, may be imagined. Where an attempt has been made to cover so many subjects, it is not surprising that, in the endeavor to be brief, the author has included much in the book which the beginner will understand with great difficulty, if at all.

A very satisfactory laboratory course in general chemistry could be arranged by selection from the large number of experiments given. An appendix contains directions for the usual laboratory manipulations and thirty-two tables which are valuable for reference. JAMES F. NORRIS.

**House Painting, Glazing, Paper Hanging, and White Washing.** A book for the householder. By ALVAH HORTON SABIN, M.S., Lecturer in New York University. New York: John Wiley and Sons. 1908. 12mo. v. + 121 pp. Price, \$1.00.

This book of Professor Sabin's will be found of much value to the householder and all those interested in the protection and decoration of wooden structures. As shown by the contents, the following subjects are covered:

Materials, pigments, care of paint brushes, exterior painting, painting structural metal, interior painting, varnishing, a colored finish without paint, floor-finishing, glazing, papering, whitewashing, kalsomining, cold-water paints.

While the subject is not treated from the chemical standpoint, still the information will be of assistance in showing to paint chemists the principles of painting in general and the character of the different pigments. It will also be of assistance in preparing specifications for paint materials.

S. S. VOORHEES.

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### RECENT PUBLICATIONS.

ANGLI-FLORENZ, PROF. ANGELO: **Ueber einige sauerstoffhaltige Verbindungen des Stickstoffs.** Uebersetzt von Prof. Kurt Arndt. Stuttgart, Ferd. Enke. 1908.

ARRHENIUS, SVANTE: **Das Werden der Welten.** Mit Unterstützung des Veri. Aus dem Schwedischen, übersetzt von L. Baumberger. 208 S. Leipzig, Akademische Verlagsgesellschaft. n. b. H. 1907.

BAUMERT, DR. GEORG: **Lehrbuch der gerichtlichen Chemie mit Berücksichtigung sanitätspolizeilicher und medizinisch-chemischer Untersuchungen zum Gebrauche bei Vorlesungen und im Laboratorium.** Braunschweig, Verlag von Friedrich Vieweg & Sohn. 1907. M. 12.