

mal stimuli and sensations, and Mr. Franz gives an account of measurements of the light which is just sufficient to produce an after-image. In addition to discussion and notes, there is an extended survey of recent psychological literature prepared by Profs. Sully, Ormond, Fullerton, Dewey, Baldwin, Donaldson, Cattell, Angell, Gardiner and Duncan, and Drs. Binet, Kirschmann, Tracy and Noyes.

THE POPULAR SCIENCE MONTHLY, MARCH.

THE number opens with an interesting account of *The Birth of a Sicilian Volcano* by Prof. Packard, describing an ascent of Monte Gernellaro, a crater on Mount Etna formed in 1886. In the second paper Dr. Bela Hubbard dwells on the importance of the forests and the need of legislation to prevent destruction by fire. An article by Dr. S. Millington Miller discusses the education of the blind and of the deaf and dumb and their careers. The number includes articles on engraving and bookbinding, two articles on scientific education, and accounts of Tyndall's work and of Thomas Nuttall (with a portrait).

THE ASTROPHYSICAL JOURNAL, MARCH.

Notes on the Atmospheric Bands in the Spectrum of Mars: WILLIAM HUGGINS.

Recent Researches on the Spectra of the Planets: H. C. VOGEL.

Solar Observations made at the Royal Observatory of the Roman College in 1894: P. TACCHINI.

On a very large Protuberance Observed December 24, 1894: J. FÉNYI.

On the Distribution of the Stars and the Distance of the Milky-Way in Aquila and Cygnus: C. EASTON.

Preliminary Table of Solar Spectrum Wave-Lengths. III.: H. A. ROWLAND.

The Modern Spectroscope: F. L. O. WADSWORTH.

Minor Contributions and Notes; Reviews; Recent Publications.

BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY, FEB.

On a Certain Class of Canonical Forms: RALPH A. ROBERTS.

Hayward's Vector Algebra: MAXIME BÔCHER.

Apolar Triangles on a Conic: F. MORLEY.

An Instance Where a Well-known Test to Prove the Simplicity of a Simple Group is Insufficient: GEORGE S. MILLER.

Briefer Notices; Notes; New Publications.

THE AMERICAN GEOLOGIST, MARCH.

Development of the Corallum in Favosites forbesi, var. occidentalis: GEORGE H. GIRTY.

Early Protozoa: G. F. MATTHEW.

The Stratigraphic Base of the Taconic or Lower Cambrian: N. H. WINCHELL.

The Second Lake Algonquin: F. B. TAYLOR.

Editorial Comment; Review of Recent Geological Literature; Correspondence; Personal and Scientific News.

NEW BOOKS.

Guide to the Study of Common Plants. VOLNEY M. SPALDING. Boston, D. C. Heath & Co. 1895. vii + 294.

Government of the Colony of South Carolina. EDSON L. WHITNEY. Baltimore, The Johns Hopkins University Press. 1895. Pp. 121. 75 cents.

Theoretical Chemistry. W. NERNST. Translated by Charles Steele Palmer. London and New York, Macmillan & Co. 1895. Pp. xxv + 697. \$5.

Mechanics. Dynamics. R. S. GLAZE BROOK. Cambridge University Press. New York, Macmillan & Co. 1895. Pp. xii + 251. \$1.25.

Diary of a journey through Mongolia and Tibet. WILLIAM WOODVILLE ROCKHILL. Washington, Smithsonian Institution. 1894. Pp. xx + 413.

Noxious and Beneficial Insects of the State of Illinois. S. A. FORBES. Springfield, Ill. 1894. Pp. xi + 165 + xii.