



Review

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to place Simultaneous Quadratics after Division, on account of the difficulties which they present to beginners. F. S. M.

Solid Geometry. By PROFESSOR F. S. CAREY, M.A. (Sold by W. M. Murphy, Renshaw Street, Liverpool.) This is a small volume of 100 pages, in which the chief properties of the simpler solids are clearly explained and demonstrated. The elementary geometry of spherical triangles is dealt with very thoroughly; and we specially like the theorem in which the various cases of the identical equality of two spherical triangles are given in order in one long enunciation. F. S. M.

Mechanics of Fluids. By G. H. BRYAN, Sc.D., F.R.S., and F. ROSENBERG, M.A. (W. B. Clive.) This book is intended to prepare students for the Elementary Examination of the Science and Art Department on the Theoretical Mechanics of Fluids, and on the whole it is well adapted for the purpose. The first nine chapters form a condensed and somewhat indigestible introduction to Dynamics, and constitute the most unsatisfactory portion of the book. Surely it is well for even the elementary student to be taught that the principles of Dynamics rest upon the laws of motion, and are not to be proved by experiment. The rest of the book, dealing with the Mechanics of Fluids, is good. The principles of the subject, and experiments for their verification, are well explained, and clear descriptions are given of the usual instruments and apparatus.

The examples are numerous and well selected, and the ten examination papers on portions of the subject will serve to make the student pay some attention to the book-work. F. W. H.

BOOKS, MAGAZINES, ETC., RECEIVED.

Calculus for Engineers. By PROFESSOR J. PERRY, M.E., D.Sc., F.R.S. (Edward Arnold.)

First Stage Inorganic Chemistry. By G. H. BAILEY, D.Sc., and W. BRIGGS, M.A., F.R.A.S. (W. B. Clive.)

Professor J. J. Sylvester. A biographical article by Dr. G. B. HALSTED. ("Science.")

Fondamenti per una teoria generale dei gruppi. By PROF. R. BETTAZZI. (Tipografia Elzeviriana, Rome.) Also *Catena di un ente in un gruppo; Gruppi finiti ed infiniti di enti; Sulla definizione del gruppo finito.* ("Atti della R. Accademia delle Scienze di Torino," vols. xxxi., xxxii.)

Le superficie algebriche di genere lineare $p^{(1)}=2$, $p^{(1)}=3$. By PROF. FEDERIGO ENRIQUES. ("Rendiconti della R. Accademia dei Lincei," vol. vi.) Also *Sulle irrazionalità da cui può farsi dipendere la risoluzione d'un' equazione algebrica $f(x, y, z)=0$ con funzioni razionali di due parametri.* ("Math. Annalen," vol. xlix.)

The American Mathematical Monthly. January to April, 1897. Edited by PROF. B. F. FINKEL and J. M. COLAW, A.M. (A Hermann, 8 Rue de la Sorbonne, Paris.)

Journal de Mathématiques Élémentaires. March to May, 1897. Edited by PROF. M. DE LONGCHAMPS. (Librairie Ch. Delagrave, 15 Rue Soufflot, Paris.)

Periodico di Matematica. March to May, 1897. Edited by PROF. GIULIO LAZZERI. (Tipografia di Raffaello Giusti, Livorno.)

Bolletino della Associazione Mathesis. No. 3.

Bulletin de la Société Physico-Mathématique de Kasan. Vol. vi., Nos. 3, 4; and vol. vii., No. 1.

The following *Mathematical Notes* have been received:

On the connection between the inscribed and escribed circles of a plane triangle. By H. B. BILLUPS, M.A.

On the simplification of certain algebraical expressions. By E. M. LANGLEY, M.A.

On obtaining the integral solution of the indeterminate equation $y^2 = ax + b$. By W. H. BESANT, Sc.D., F.R.S.