

NEW PUBLICATIONS.

HIGHER MATHEMATICS.

- BOLYAI (J.). The science absolute of space, independent of the truth or falsity of Euclid's axiom XI (which can never be decided *a priori*). Translated from the Latin by G. B. Halsted. 4th edition. Austin, Halsted, 1896. 12mo. 30 and 72 pp. Cloth. \$1.00
- BONETTI (E.). Alcune questioni sui contatti sferici, precedute da una esposizione sui centri, assi e piani di similitudine. Messina, 1895. 8vo. 12 pp.
- CAYLEY (A.). Collected mathematical papers. (In 13 volumes.) Vol. 9. Cambridge University Press (Macmillan). 4to. 16 and 621 pp. \$6.50.
- DAUGE (F.). Cours de méthodologie mathématique. 2e édition, revue et augmentée. Gand, 1896. 8vo. 10 and 525 pp., 12 plates. Fr. 13.00
- DURÈGE (H.). Elements of the theory of functions of a complex variable with especial reference to the methods of Riemann. Authorized translation from the fourth German edition by G. E. Fisher and I. J. Schwatt. Philadelphia, Fisher & Schwatt, 1896. 8vo. \$2.50.
- GAMBARDELLA (F.). Elementi di calcolo infinitesimale. 2a edizione. Livorno, Giusti, 1895. 8vo. 8 and 517 pp. Fr. 9.00
- GERNET (M.). Ueber Reduktion hyperelliptischer Integrale. [Diss.] Heidelberg, 1895. 8vo. 40 pp.
- GRANE (N.). Ueber Kurven mit gleichartigen successiven Developpoiden. Lund, 1894. 8vo. 71 pp. Mk. 2.50
- GRIESS (J.). See KLEIN (F.).
- HACK (F.). Beiträge zur Anwendung der Gruppentheorie auf kubische und biquadratische Gleichungen. [Diss.] Tübingen, 1895. 8vo. 36 pp.
- HALLGREN (E.). Om Beräkningen af Abelska Integralers Omvandning. Göteborg, 1894. 8vo. 78 pp., 7 plates. Mk. 3.00
- HALSTED (G. B.). See BOLYAI (J.).
- HANSEN (P.C.V.). Et Brudstykke af den analytiske Plangeometri. Kjöbenhavn, 1895. 4to. 48 pp. (Lithographed.) Mk. 1.80
- KLEIN (F.). Leçons sur certaines questions de géométrie élémentaire. (Possibilité des constructions géométriques; les polygones réguliers; transcendance des nombres e et π). Rédaction française par J. Griess. Paris, Nony, 1895. 8vo.
- KÖNIGSBERGER (L.). Hermann von Helmholtz's Untersuchungen über die Grundlagen der Mathematik und Mechanik. Heidelberg, 1895. 4to. 70 pp.
- KUMMELL (C. H.). To express the roots of the solvable quatics as symmetrical functions of homologues. (*American Journal of Mathematics*, Vol. 18, pp. 74-94.) 4to.