

was elected to membership, and Professor Sir JOSEPH LARMOR, of the University of Cambridge, was elected foreign member.

At the meeting of the National academy of sciences held in Washington, D. C., April 24, Professor L. E. DICKSON, of the University of Chicago, and Professor A. O. LEUSCHNER, of the University of California, were elected to membership.

DR. C. T. SULLIVAN has been promoted to an assistant professorship of mathematics at McGill University.

PROFESSOR P. H. SCHOUTE, of the University of Groningen and author of the *Geometrie der mehrdimensionalen Räume*, died April 18 at the age of 67 years.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

- AMODEO (F.). *Lezioni di geometria proiettiva, dettate nella università di Napoli. 3a edizione, migliorata e corretta. Ristampa, con appendice.* Napoli, Pierro, 1912. 8vo. 15+506 pp. L. 12.00
- ARCHIMEDIS *Opera omnia cum commentariis Eutocii. Iterum edidit J. L. Heiberg. Volumen II.* Leipzig, Teubner, 1913. 8vo. M. 8.00
- AUERBACH (F.). See TASCHEBUCH.
- BERNSTEIN (S. I.). See PICARD (E.).
- BOLYAI (J.). *La science absolue de l'espace. Traduit de l'allemand par J. Houel, avec une notice sur la vie et l'oeuvre de J. et W. Bolyai par F. Schmidt.* Paris, Hermann, 1911. 8vo. Fr. 4.00
- BUKREIEF (B. I.). *Elements of algebraic analysis. Lectures in the advanced course for women at Kief. (Russian.) (Kief University Bulletin.)* Kief, 1912. 8vo. 6+224 pp. R. 2.00
- CALDARERA (F.). *Trattato dei determinanti.* Palermo, Virzi, 1913. 8vo. 255 pp. L. 7.00
- CAPITO (C. A. A.). *A text-book of mathematics and mechanics.* London, Griffin, 1913. 12mo. 398 pp. \$4.00
- DEMARTRES (G.). *Cours de géométrie infinitésimale. Avec une préface de G. Darboux.* Paris, Gauthier-Villars, 1913. 8vo. 10+418 pp. Fr. 17.00
- ENRIQUES (F.). *Les concepts fondamentaux de la science. Traduit de l'italien par L. Rougier.* Paris, Dunod et Pinat, 1912. 18mo. Fr. 3.50
- FAZZANI (G.). See FREYCINET (C. de).

- FREYCINET (C. de). Dell'esperienza in geometria. Traduzione di G. Fazzani. Palermo, 1912. L. 2.00
- GABEREL (L.). Géométrie analytique en nombres conjugués. (Diss.) Neuchâtel, 1911. 8vo. 20 pp.
- GRAVE (D. A.). Encyclopedia of mathematics. A survey of its present state. (Russian.) Kief, Ogloblin, 1912. 8vo. 10+601 pp. R. 3.50
- GUIMARAES (R.). Les mathématiques en Portugal. Appendice II. Paris, Gauthier-Villars, 1911. 8vo. 107 pp. Fr. 4.00
- HADAMARD (J.). Notice sur les travaux mathématiques de 1884 à 1912. 2 parties. Paris, Hermann, 1912. 4to. 150 pp. Fr. 6.00
- HALSTED (G. B.). On the foundation and technic of arithmetic. Chicago, Open Court Publishing Co., 1913. 133 pp. \$1.00
- HANKEL (H.). Theory of complex number systems, especially of ordinary imaginary numbers and of Hamilton's quaternions, with their geometric representation. Russian translation by students of the mathematical club of Kazan University, edited with notes by I. I. Parfnitief. Kazan, 1912. 8vo. 16+242+3 pp.
- HEIBERG (J. L.). See ARCHIMEDIS.
- HERBST (W.). Mongesche Gleichungen zweiten Grades als Schnittbedingungen von Kurvenscharen. (Diss.) Greifswald, 1912. 8vo. 50 pp.
- HEIBERG (J. L.). See ARCHIMEDIS.
- HOUEL (J.). See BOLYAI (J.).
- HRONYECZ (G.). Herleitung der Fuchsschen Periodenrelationen für lineare Differentialsysteme. (Diss.) Giessen, 1912.
- IPATOF (V. M.). The elements of infinitesimal analysis, with a collection of exercises. For the seventh class of the "real" school. (Russian.) Moscow, Sytin, 1912. 8vo. 200 pp. R. 1.00
- KLEIN (F.). Questions of elementary and higher mathematics. Lectures delivered at the University of Göttingen. Part I: Arithmetic, algebra, analysis. Russian translation by D. A. Kryzhanofsky, edited by V. F. Kahan. Odessa, *Mathesis*, 1912. 8vo. 19+486 pp. R. 3.00
- KORKIN (A. N.). Works, edited by V. Steklof and A. Markof. (Russian.) Vol. I. (Published by the Physico-Mathematical Faculty of the University of St. Petersburg.) St. Petersburg, 1911. 8vo. 5+469 pp.
- KREBS (H.). Théorie des groupes de transformations à un paramètre. (Diss.) Neuchâtel, 1911. 8vo. 16 pp.
- KRYZHANOFSKY (D. A.). See KLEIN (F.).
- LECAT (M.). Bibliographie du calcul des variations. Paris, Hermann, 1912. 8vo. 70 pp. Fr. 3.00
- LETZ (E.). Die Verfolgungskurve des Kehlkreises auf den Rotationsflächen konstanter Krümmung. (Diss.) Halle, 1912. 8vo. 104 pp.
- LIETZMANN (W.). The Pythagorean proposition, with a general view of Fermat's problem. Russian translation. (Library of elementary mathematics, edited by S. O. Shatunofsky. No. 1.) Odessa, *Mathesis*, 1912. 16mo. 2+80 pp. R. 0.40

- LILJESTRÖM (A.). Etudes sur la théorie du potentiel logarithmique. Stockholm, 1912. M. 1.50
- LINDOW (M.). Differential- und Integralrechnung mit Berücksichtigung der praktischen Anwendungen in der Technik. (Aus Natur und Geisteswelt. Nr. 387.) Leipzig, Teubner, 1913. 16mo. 7+111 pp. M. 1.25
- LOBATSHEFSKY (N. I.). New foundations of geometry, with a complete theory of parallels. With the addition of a biographical sketch of the author and notes. (Russian.) (Kharkof Mathematical Library, Nos. 2-3.) Kharkof, 1912. 8vo. 33+234 pp., 4 plates. R. 1.00
- MARCO (F. De). La quadratura del circolo, e come è stato risolto il problema dalla scienza. Bologna, Galleri, 1913. 8vo. 16 pp.
- MEMORIAL VOLUME presented to Professor G. K. Suslof (1881-1911). (Russian.) (*Kief University Bulletin.*) Kief, 1911. 8vo. 8+404 pp.
- MERTÉ (W.). Ueber Kurven sphärischer Krümmung. (Diss. Jena.) Weida, Thomas und Hubert, 1912.
- MEYER (F.). Diskussion eines Systems von Rotationsflächen 2ten Grades. (Diss.) Bern, 1911. 8vo. 70 pp.
- MOROZOF (N.). The function; exposition of the differential and integral calculus with some of its applications to physical science and geometry. A guide to the independent study of higher mathematical analysis. (Russian.) St. Petersburg and Kief, Sotrudnik, 1912. 8vo. 12+404 pp. R. 3.50
- NETTO (E.). Elements of the theory of determinants. Russian translation, edited, with notes, by S. O. Shatunofsky. Odessa, *Mathesis*, 1912. 8vo. 8+156 pp. R. 1.20
- NUGEL (F.). Die Schraubenlinien. Eine monographische Darstellung. (Diss.) Halle, 1912. 8vo. 88 pp.
- PARFNITIEF (I. I.). See HANKEL (H.).
- PICARD (E.). On the development of certain fundamental theories of mathematical analysis in the course of the last century. Three lectures, delivered at Clark University, Worcester, Mass., U. S. A., 5, 6, and 7 July, 1899. Russian translation by S. O. Bernstein. (Kharkof Mathematical Library, edited by D. M. Sintsof. Series B, No. 1.) Kharkof, 1912. 12mo. 100 pp. R. 0.50
- POPRUZHENKO (M.). Contribution to the methodology of infinitesimal analysis in secondary schools. (Russian.) St. Petersburg, Pedagogical Magazine, 1912. 8vo. 9+91 pp. R. 1.00
- POSSÉ (K. A.). Course in differential and integral calculus. 3d edition, revised and enlarged by the author. (Russian.) St. Petersburg, Berezofsky, 1912. 8vo. 10+850 pp. R. 6.00
- RABINOWITSCH (J.). Beiträge zur Auflösung der algebraischen Gleichungen 5ten Grades. (Diss.) Bern, 1911. 8vo. 32 pp.
- RICHARD (J.). Sur la philosophie de la géométrie. Chateauroux, 1911. 8vo. 75 pp. Fr. 3.00
- ROSHTSHIN (P.). Course in differential and integral calculus. (Russian.) Part I: Differential calculus. St. Petersburg, 1911. 8vo. 780+4 pp. Part II: Integral calculus. St. Petersburg, 1912. 8vo. 508+2 pp. R. 6.50

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- SCHOUTE (P. H.). Analytical treatment of the polytopes regularly derived from the regular polytopes. Section I: The simplex, with plate. Amsterdam, 1911. M. 4.00
- SHATUNOVSKY (S. O.). See NETTO (E.).
- TASCHEMUCH für Mathematiker und Physiker. Unter Mitwirkung zahlreicher Fachgenossen herausgegeben von F. Auerbach und R. Rothe. Mit einem Bildnis Friedrich Kohlrauschs. 3ter Jahrgang 1913. Leipzig, Teubner, 1913. 8vo. 10+437 pp. Cloth. M. 6.00
- TIEDEMANN (K.). Zur Theorie der Elimination. (Diss.) Königsberg, 1912. 8vo. 63 pp.
- TOMASSETTI (M.). See VOLTERRA (V.).
- VELMIN (V. D.). On the theory of residuals of the eighth order in algebraic domains. (Russian.) (*Warsaw University Bulletin.*) Warsaw, 1912. 8vo. 21+229 pp.
- VÉRÉBRUSOV (A.). Mémoire sur les classes des nombres complexes idéaux conjugués, avec l'application à la démonstration du dernier théorème de Fermat. Paris, Gauthier-Villars, 1912. 8vo. 18 pp. Fr. 2.00
- VIVANTI (G.). Esercizi di analisi infinitesimale. Puntata I. Completo. Pavia, Mattei, 1912. 8vo. 9 + 410 pp. L. 15.00
- VOLTERRA (V.). Leçons sur les équations intégrales et les équations integro-différentielles. Leçons professées à la Faculté des sciences de Rome en 1910. Publiées par M. Tomassetti et F. S. Zarlatti. (Collection de monographies sur la théorie des fonctions.) Paris, Gauthier-Villars, 1913. 8vo. 6+164 pp. Fr. 5.50
- WOODS (B. M.). A discussion by synthetic methods of two projective pencils of conics. (Publications in Mathematics.) Berkeley, Cal., University of California, 1913. 4to. Pp. 55-83. Paper. \$0.50
- ZARLATTI (F. S.). See VOLTERRA (V.).

II. ELEMENTARY MATHEMATICS.

- BOREL and STÄCKEL. The elements of mathematics. Part II: Geometry. Russian translation, edited by V. F. Kahan. Odessa, *Mathesis*, 1912. 8vo. 23+334 pp. R. 3.00
- BROWN (S. J.). Trigonometry and stereographic projections. Revised. Annapolis, Md., U. S. Naval Academy, 1913. 12mo. 9+132 pp. \$1.25
- DZIOBEK (O.). Course in analytic geometry. Part I: Plane analytic geometry. 8+390 pp. Part II: Solid analytic geometry. 8+356 pp. Russian translation by V. G. Schiff. Odessa, *Mathesis*, 1911. R. 5.00
- FENKNER (H.) und HESSENBRUCH (C. E.). Lehr- und Übungsbuch der Mathematik für höhere Mädchenschulen. 1ter Teil. 2te verbesserte Auflage. Berlin, Salle, 1912. 8vo. 8+168 pp. M. 2.20
- FILIPPOF (A. O.). The four operations of arithmetic. The natural numbers. (Russian.) Odessa, *Mathesis*, 1912. 8vo. 87 pp. R. 0.70

- HAWKES (H. E.). Higher algebra. Boston, Ginn, 1913. Svo. 5+222 pp. \$1.40
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- WESTRICK (F. A.). Fünfstellige Logarithmen. 4te Auflage. Münster, Aschendorff, 1913. Svo. 2+125 pp. M. 1.00
- YOUNG (J. W. A.). How to teach mathematics; the instruction in mathematics in the secondary and in the elementary school. Russian translation, with appendices, by A. R. Kumiker. Appendix I: M. Vecchi, Characterization of the principal text-books of elementary mathematics that have appeared in Italy during the last 50 years. Appendix II: Lessons in arithmetic and algebra. Appendix III: The most recent literature in foreign languages and the Russian literature of the subject. St. Petersburg, 1912. Svo. 16+9+425 pp. R. 1.00

III. APPLIED MATHEMATICS.

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- CENTÉNAIRE de U.-J.-J. LE VERRIER. (Institut de France. Académie des Sciences.) Paris, Gauthier-Villars, 1911. 8vo. 128 pp. Fr. 5.00
- CLAIRAUT (A. C.). Théorie de la figure de la terre, tirée des principes de l'hydrostatique. Nouvelle édition conforme à la précédente (1808). Paris, Hermann, 1911. 8vo. 40+312 pp. Fr. 6.00
- . Theorie der Erdgestalt nach Gesetzen der Hydrostatik. Herausgegeben von P. E. B. Jourdain und A. v. Oettingen. (Ostwald's Klassiker. Nr. 189.) Leipzig, Engelmann, 1913. 8vo. 162 pp. M. 4.60
- COLLINS (A. F.). Manual of wireless telegraphy and telephony. 3d edition, revised and enlarged. New York, Wiley, 1913. 12mo. 15+300 pp. Cloth. \$1.50
- DADOURIAN (H. M.). Analytical mechanics for students of physics and engineering. New York, Van Nostrand, 1913. 8vo. 12+353 pp. \$3.00
- DAUTHEVILLE (S.). See APPELL (P.).
- ENZYKLOPÄDIE der mathematischen Wissenschaften. Band VI, 2: Astronomie. 5te Lieferung: H. v. Zeipel, Entwicklung der Störungsfunktion. Leipzig, Teubner, 1912. 8vo. Pp. 557-665. M. 3.40
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- HARTMANN (O.). Astronomische Erdkunde. 4te, umgearbeitete Auflage. Stuttgart, 1913. 8vo. M. 1.20
- HARTMANN (T.). Zur Theorie der Momentanbewegung eines ebenen ähnlich veränderlichen Systems. (Diss.) Rostock, 1912. 8vo. 144 pp.
- HIRSHFELD (C. F.) and BARNARD (W. N.). Elements of heat-power engineering. New York, Wiley, 1912. 8vo. 13+811 pp. Cloth. \$5.00
- and ULBRICHT (T. C.). Gas power. (Wiley Technical Series.) New York, Wiley, 1913. 8vo. 10+209 pp. Cloth. \$1.25
- HISCOX (G. D.). Modern steam engineering in theory and practice. With chapters on electrical engineering by N. Harrison. 3d edition. New York, Henley, 1913. 8vo. 487 pp. \$3.00
- HOFFMAN (J. D.). See BENJAMIN (C. H.).
- HOYT (J. C.) and GROVER (N. C.). River discharge. 2d edition, revised and enlarged. New York, Wiley, 1912. 8vo. 12+173 pp. Cloth. \$2.00

- HUGERSDORF (R.). Kartographische Aufnahmen und geographische Ortsbestimmung auf Reisen. (Sammlung Göschen, Nr. 607.) Berlin, Göschen, 1912. 8vo. M. 0.80
- KAYSER (H.). Handbuch der Spectroscopie. 6ter Band. Leipzig, Hirzel, 1912. 8vo. 6+1067 pp. M. 64.00
- KING (W. R.). Steam engineering; a text-book. New York, Wiley, 1913. 8vo. 7+450 pp. Cloth. \$4.00
- KRIEGER (J. N.). Mond-Atlas. Nach seinen an der Pia-Sternwarte in Triest angestellten Beobachtungen bearbeitet und herausgegeben von R. König. Neue Folge. Text, 18+376 pp.; atlas, 67 pp. Wien, Mayer, 1912. M. 65.00
- KÜSTER (F. W.). Logarithmische Rechentafeln für Chemiker, Pharmazeuten, Mediziner und Physiker. 13te, neu berechnete Auflage. Leipzig, Veit, 1913. 8vo. 107 pp. Cloth. M. 2.80
- LABROUSTE (H.). See WOOD (R. W.).
- LA COUR (J. L.) and BRAGSTAD (O. S.). Theory and calculation of electric currents. Translated by S. P. Smith. London, Longmans, 1913. 8vo. 494 pp. 16s.
- LEWIZKY (J. R.). Geodesy. Lectures at the Polytechnic Institute in Kief. 2 parts. (Russian.) Kief, 1912. 8vo. 216+68 pp. M. 8.50
- MACLIN (E. S.). See MILLAR (A. V.).
- MAHLER (G.). Physikalische Formelsammlung. (Sammlung Göschen. Nr. 136.) 4te, verbesserte Auflage. Berlin, Göschen, 1912. 8vo. Cloth. M. 0.80
- MANES (A.). Versicherungswesen. 2te, umgearbeitete und erweiterte Auflage. Leipzig, Teubner, 1913. 8vo. M. 11.00
- MAYCOCK (W. P.). A first book of electricity and magnetism. 14th edition, thoroughly revised and considerably enlarged. London, Whittaker, 1913. 8vo. 374 pp. 2s. 6d.
- MAYER (R.). Ueber Elastizität und Stabilität des geschlossenen und offenen Kreisbogens. (Diss.) Karlsruhe, 1911. 8vo. 75 pp.
- MEHRTENS (G. C.). Vorlesungen über Ingenieur-Wissenschaften. 1ter Teil, 3ter Band, 2te Hälfte: Statisch unbestimmte Tragwerke. 2te umgearbeitete Auflage. Leipzig, Engelmann, 1912. 8vo. Cloth. M. 18.50
- MILLAR (A. V.) and MACLIN (E. S.). Descriptive geometry. New York, McGraw-Hill, 1913. 135 pp. \$1.50
- NEKRASOF (P. A.). Theory of probabilities. 2d edition. (Russian.) St. Petersburg, 1912. 8vo. 36+532 pp. R. 5.00
- PAPPERITZ (E.). See ROHN (K.).
- PFEIFFER (F.). Das Turbulenzproblem. (Habilitationvortrag.) Halle a. S., 1912.
- PLANCK (M.). Vorlesungen über Thermodynamik. 4te Auflage. Leipzig, Veit, 1913. 8vo. 8+288 pp. Cloth. M. 7.50
- RABOW (F.). Ueber Knickfestigkeit. Die Eulersche Formel für die Knickkraft bei Zugrundelegung verschiedener Dehnungsgesetze. (Diss.) Hannover, 1912. 8vo. 47 pp.

- RANDALL (J. A.). Heat; a manual for technical and industrial students. New York, Wiley, 1913. 12mo. 14+331 pp. \$1.50
- RODENHAUSER (W.) and SCHOENAWA (I.). Electric furnaces in the iron and steel industry. Translated from the 2d German edition by C. H. Vom Baur. New York, Wiley, 1913. 8vo. 16+419 pp. Cloth. \$3.50
- ROHN (K.) und PAPPERITZ (E.). Lehrbuch der darstellenden Geometrie. 1ter Band: Orthogonalprojektion. 4te, erweiterte Auflage. Leipzig, Veit, 1913. 8vo. 20+502 pp. Cloth. M. 14.00
- RUTHERFORD (E.). Radioactive substances and their radiations. New enlarged edition, completely rewritten. Cambridge, University Press, 1913. 8vo. \$4.50
- SCHOENAWA (I.). See RODENHAUSER (W.).
- SHATUNOVSKY (S. O.). See APPELL (P.).
- SLOCUM (S. E.). The theory and practice of mechanics. New York, Holt, 1913. 8vo. 13+442 pp. \$3.00
- TREVEN (K.). Der Gebrauch des logarithmischen Rechenschiebers und des Präzisionsschiebers. Wien, Deuticke, 1913. M. 0.80
- ULBRICHT (T. C.). See HIRSHFELD (C. F.).
- VIGNERON (H.). See WOOD (R. W.).
- VORLÄNDER (M. C.). Mathematisches Modellieren in seiner Anwendung auf die Konstruktion von Seeschiffskörpern. Minden, Hufeland, 1912. M. 3.00
- WEITBRECHT (W.). Ausgleichsrechnung nach der Methode der kleinsten Quadrate. (Sammlung Göschen, Nr. 302. Neue Auflage.) 2te, veränderte Auflage. 1ter Teil: Ableitung der grundlegenden Sätze und Formeln. Berlin, Göschen, 1912. 8vo. 127 pp. Cloth. M. 0.90
- . Ausgleichsrechnung nach der Methode der kleinsten Quadrate. (Sammlung Göschen. Neue Auflage. Nr. 641.) 2te, veränderte Auflage. 2ter Teil: Zahlenbeispiele. Berlin, Göschen, 1913. 8vo. 141 pp. Cloth. M. 0.90
- WENDLING (E.). Ueber den Pohlke'schen Satz. (Diss.) Zürich, 1911. 8vo. 34 pp.
- WERNER (O.). Der Streit um die Schwerkraft im Erdinnern. Gotha, Perthes, 1913. M. 0.60
- WIENER (O.). Die Theorie des Mischkörpers für das Feld der stationären Strömung. Erste Abhandlung. Die Mittelwertsätze für Kraft, Polarisation und Energie. Leipzig, Teubner, 1912. M. 4.00
- WILLIAMS (E. V.) and BODEN (G. G.). Reliable interest tables. Fresno, Cal., Banker's Novelty Co., 1912. \$3.50
- WOOD (R. W.). Optique physique. Traduit de l'anglais d'après la 2e édition, par H. Vigneron et H. Labrouste. Tome I. Optique ondulatoire. Paris, Gauthier-Villars, 1913. 8vo. 6+436 pp. Fr. 16.00
- WOODWARD (C. M.). Rational and applied mechanics. St. Louis, Nixon-Jones Press, 1913. 8vo. 8+517 pp. \$4.00