

THIRTY-SEVENTH ANNUAL LIST OF PAPERS

READ BEFORE THE AMERICAN MATHEMATICAL SOCIETY AND SUBSEQUENTLY PUBLISHED, INCLUDING REFERENCES TO THE PLACES OF PUBLICATION

- ADAMS, C. R. On the irregular cases of the linear ordinary difference equation. Read Dec. 28, 1926. *Transactions of this Society*, vol. 30, No. 3, pp. 507-541; July, 1928.
- Factorial series in two variables. Read April 6, 1928. *This Bulletin*, vol. 34, No. 4, pp. 473-475; July-Aug., 1928.
- ALEXANDER, J. W. Topological invariants of knots and links. Read May 7, 1927. *Transactions of this Society*, vol. 30, No. 2, pp. 275-306; April, 1928.
- ALTSHILLER-COURT, N. On four mutually orthogonal circles. Read Sept. 8, 1927. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 369-372; July, 1928.
- ARCHIBALD, R. G. Diophantine equations in division algebras. Read Oct. 29, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 819-837; Oct., 1928.
- AYRES, W. L. Note on a theorem concerning continuous curves. Read Feb. 26, 1927. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 501-502; Sept., 1927.
- On the structure of a plane continuous curve. Read May 7, 1927. *Proceedings of the National Academy of Sciences*, vol. 13, No. 11, pp. 749-754; Nov., 1927.
- On the separation of points of a continuous curve by arcs and simple closed curves. Read Feb. 26, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 3, pp. 201-206; March, 1928.
- An elementary property of bounded domains. Read Oct. 29, 1927. *This Bulletin*, vol. 34, No. 2, pp. 200-204; March-April, 1928.
- Concerning the arc-curves and basic sets of a continuous curve. Read May 7, 1927. *Transactions of this Society*, vol. 30, No. 3, pp. 567-578; July, 1928.
- Concerning continuous curves of certain types. Read May 1, 1926. *Fundamenta Mathematicae*, vol. 11, pp. 132-140; 1928.
- AYRES, W. L., and WHYBURN, G. T. On continuous curves in n dimensions. Read Oct. 29, 1927. *This Bulletin*, vol. 34, No. 3, pp. 349-360; May-June, 1928.
- BALLANTINE, J. P. A generalization of the calculus of finite differences to include the differential calculus. Read Dec. 28, 1923. *Annals of Mathematics*, (2), vol. 29, No. 1, pp. 14-16; Dec., 1927.
- BATCHELDER, P. M. An introduction to linear difference equations. Read, in part, April 26, 1913. Cambridge, Mass., Harvard University Press, 1927. 8+209 pp.
- BATEMAN, H. Transverse seismic waves on the surface of a semi-infinite

- solid composed of heterogeneous material. Read (San Francisco Section) Oct. 29, 1927. *This Bulletin*, vol. 34, No. 3, pp. 343-348; May-June, 1928.
- BELL, E. T. Periodic functions of n variables connected with an algebraic number field of degree n . Read Jan. 1, 1926. *Quarterly Journal of Mathematics*, vol. 50, No. 4, pp. 314-328; Sept., 1927.
- Numerical functions of multipartite integers and compound partitions. Read (San Francisco Section) June 18, 1927. *American Journal of Mathematics*, vol. 49, No. 4, pp. 489-510; Oct., 1927.
- On the arithmetic of abelina (sic) functions. Read (San Francisco Section) Oct. 29, 1927. *Proceedings of the National Academy of Sciences*, vol. 13, No. 11, pp. 754-758; Nov., 1927.
- Partition polynomials. Read (San Francisco Section) June 18, 1927. *Annals of Mathematics*, (2), vol. 29, No. 1, pp. 38-46; Dec., 1927.
- Algebraic arithmetic. Read Sept. 6-10, 1927. *American Mathematical Society Colloquium Publications*, vol. 7; 1927. 4+180 pp.
- A property of resultants. Read (San Francisco Section) April 7, 1928. *Messenger of Mathematics*, vol. 57, No. 9, pp. 141-144; Jan., 1928.
- Certain completely solvable systems of simultaneous diophantine equations. Read (San Francisco Section) April 7, 1928. *American Mathematical Monthly*, vol. 35, No. 5, pp. 239-241; May, 1928.
- Remark on the number of classes of binary quadratic forms of a given negative determinant. Read (San Francisco Section) April 7, 1928. *Proceedings of the National Academy of Sciences*, vol. 14, No. 5, pp. 430-431; May, 1928.
- Ternary characteristics of primes. Read (San Francisco Section) April 7, 1928. *This Bulletin*, vol. 34, No. 3, pp. 323-328; May-June, 1928.
- A generalization of circulants. Read (San Francisco Section) April 7, 1928. *Proceedings of the Edinburgh Mathematical Society*, (2), vol. 1, part 3, pp. 177-181; July, 1928.
- Certain class-number relations implied in the Nachlass of Gauss. Read (San Francisco Section) April 7, 1928. *This Bulletin*, vol. 34, No. 4, pp. 490-494; July-Aug., 1928.
- Note on difference equations defining enumerative arithmetical functions. Read (San Francisco Section) April 7, 1928. *Bulletin of the Calcutta Mathematical Society*, vol. 19, No. 3, pp. 135-138; Sept., 1928.
- BENDER, H. A. On groups of order p^m , p being an odd prime number, which contain an abelian subgroup of order p^{m-1} . Read April 10, 1925, and Sept. 9, 1926. *Annals of Mathematics*, (2), vol. 29, No. 1, pp. 89-94; Dec., 1927.
- BIRKHOFF, G. D. On the periodic motions of dynamical systems. Read Sept. 9, 1927. *Acta Mathematica*, vol. 50, Nos. 3-4, pp. 359-379; 1927.
- Dynamical systems. Read Sept. 8-11, 1920. *American Mathematical Society Colloquium Publications*, vol. 9; 1927. 8+295 pp.
- BOGOLIOUBOFF, N., and KRYLOFF, N. On Rayleigh's principle in the theory of the differential equations of mathematical physics and on

- Euler's method in calculus of variations. Read Sept. 9, 1926. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 255-275; July, 1928.
- BROWN, E. W. Resonance in the solar system. Read Dec. 28, 1927. *This Bulletin*, vol. 34, No. 3, pp. 265-289; May-June, 1928.
- A remainder formula and its use in the development of the disturbing function by harmonic analysis. Read (San Francisco Section) April 7, 1928. *Monthly Notices of the Royal Astronomical Society*, vol. 88, No. 8, pp. 624-634; June, 1928.
- BROWNE, E. T. The characteristic equation of a matrix. Read Dec. 29, 1927. *This Bulletin*, vol. 34, No. 3, pp. 363-368; May-June, 1928.
- CAIRNS, W. D. Development of functions in a system of approximately orthogonal functions. Read (San Francisco Section) April 2, 1927. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 503-514; Sept., 1927.
- CAJORI, F. Briefe von C. H. Schumacher und W. Struve an F. R. Hassler in Amerika. Read (San Francisco Section) April 2, 1927. *Zeitschrift für Instrumentenkunde*, vol. 47, No. 11, pp. 532-536; Nov., 1927.
- The earliest arithmetic published in America. Read (San Francisco Section) April 2, 1927. *Isis*, vol. 9, No. 3, pp. 391-401; Dec., 1927.
- Robert Burton's horoscope and the year of his birth. Read (San Francisco Section) Oct. 29, 1927. *Popular Astronomy*, vol. 36, No. 1, pp. 9-11; Jan., 1928.
- A comparison of methods of determining calendar dates by finger reckoning. Read (San Francisco Section) Oct. 29, 1927. *Archeion*, vol. 9, No. 1, pp. 31-42; Jan.-March, 1928.
- Surveying and astronomical instruments used in America before the nineteenth century. Read (San Francisco Section) Oct. 25, 1919. Printed in *The Early Mathematical Sciences in North and South America*, Boston, The Gorham Press, 1928. 156 pp.
- CAMP, C. C. An expansion involving p inseparable parameters associated with a partial differential equation. Read Sept. 9, 1926. *American Journal of Mathematics*, vol. 50, No. 2, pp. 259-268; April, 1928.
- CAMPBELL, A. D. Pencils of conics in the Galois fields of order 2^n . Read Dec. 29, 1925. *American Journal of Mathematics*, vol. 49, No. 3, pp. 401-406; July, 1927.
- The polar curves of plane algebraic curves in the Galois fields. Read Dec. 28, 1927. *This Bulletin*, vol. 34, No. 3, pp. 361-363; May-June, 1928.
- The discriminant of an m -ary quadratic in the Galois fields of order 2^n . Read Dec. 28, 1927. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 395-398; July, 1928.
- Nets of conics in the Galois fields of order 2^n . Read Dec. 31, 1926. *This Bulletin*, vol. 34, No. 4, pp. 481-489; July-Aug., 1928.
- COBLE, A. B., and MORLEY, F. New results in elimination. Read April 15, 1927. *American Journal of Mathematics*, vol. 49, No. 4, pp. 463-488; Oct., 1928.
- COPELAND, A. H. Types of motion of the gyroscope. Read Oct. 29, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 737-764; Oct., 1928.

- CRAMLET, C. M. A determination of all invariant tensors. Read (San Francisco Section) April 3, 1926. *Tôhoku Mathematical Journal*, vol. 28, Nos. 3-4, pp. 242-250; Sept., 1927.
- The derivation of algebraic invariants by tensor algebra. Read Feb. 26, 1927. *This Bulletin*, vol. 34, No. 3, pp. 334-342; May-June, 1928.
- DAVIS, D. R. The inverse problem of the calculus of variations in higher space. Read (San Francisco Section) June 18, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 710-736; Oct., 1928.
- DAVIS, H. T. On the factoring of Fredholm minors. Read April 16, 1927. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 334-342; July, 1928.
- DICKSON, L. E. Additive number theory for all quadratic functions. Read Sept. 9, 1927. *American Journal of Mathematics*, vol. 50, No. 1, pp. 1-48; Jan., 1928.
- Simpler proofs of Waring's theorem on cubes, with various generalizations. Read April 15, 1927. *Transactions of this Society*, vol. 30, No. 1, pp. 1-18; Jan., 1928.
- Generalizations of the theorem of Fermat and Cauchy on polygonal numbers. Read Sept. 9, 1927. *This Bulletin*, vol. 34, No. 1, pp. 63-72; Jan.-Feb., 1928.
- Extended polygonal numbers. Read Sept. 9, 1927. *This Bulletin*, vol. 34, No. 2, pp. 205-217; March-April, 1928.
- DINES, L. L. A theorem on orthogonal functions with an application to integral inequalities. Read (San Francisco Section) June 12, 1926. *Transactions of this Society*, vol. 30, No. 2, pp. 425-438; April, 1928.
- A theorem on orthogonal sequences. Read Sept. 8, 1927. *Transactions of this Society*, vol. 30, No. 2, pp. 439-446; April, 1928.
- DORROH, J. L. Concerning a set of metrical hypotheses for geometry. Read Sept. 9, 1927. *Annals of Mathematics*, (2), vol. 29, No. 2, pp. 229-231; April, 1928.
- DOUGLAS, J. Contact transformations of three-space which convert a system of paths into a system of paths. Read May 7, 1927. *Proceedings of the National Academy of Sciences*, vol. 13, No. 8, pp. 605-607; Aug., 1927.
- The analysis situs of the plane when the directed line is taken as element. Read Oct. 28, 1922. *American Mathematical Monthly*, vol. 35, No. 2, pp. 57-63; Feb., 1928.
- The general geometry of paths. Read May 7, 1927. *Annals of Mathematics*, (2), vol. 29, No. 2, pp. 143-168; April, 1928.
- A method of numerical solution of the problem of Plateau. Read May 7, 1927. *Annals of Mathematics*, (2), vol. 29, No. 2, pp. 180-188; April, 1928.
- DRACH, J. Détermination des éléments linéaires de Liouville pour lesquels l'équation des lignes géodésiques admet au moins deux intégrales rationnelles en la dérivée première. Read Oct. 30, 1926. *Comptes Rendus de l'Académie des Sciences*, vol. 185, No. 26, pp. 1568-1570; Dec. 27, 1927.

- DRESDEN, A. Some philosophical aspects of mathematics. Read Dec. 29, 1927. *This Bulletin*, vol. 34, No. 4, pp. 438-452; July-Aug., 1928.
- EIESLAND, J. Quadratic flat complexes in odd n -space and their singular spreads, flat-sphere transformation. Read Sept. 7, 1923, and Sept. 10, 1925. *Proceedings of the International Mathematical Congress held in Toronto*, vol. I, pp. 863-887; 1928.
- EISENHART, L. P. Non-Riemannian geometry. Read Sept. 8-12, 1925. *American Mathematical Society Colloquium Publications*, vol. 8; 1927. 8+184 pp.
- ELLIOTT, W. W. Generalized Green's functions for compatible differential systems. Read Dec. 29, 1926. *American Journal of Mathematics*, vol. 50, No. 2, pp. 243-258; April, 1928.
- ETTLINGER, H. J. On the Fredholm integral equation. Read Feb. 26, 1927. *Tôhoku Mathematical Journal*, vol. 28, Nos. 3-4, pp. 152-163; Sept., 1927.
- Note on Riemann-Stieltjes integrals. Read (Southwestern Section) Nov. 27, 1926. *Journal of the London Mathematical Society*, vol. 2, No. 4, pp. 245-247; Oct., 1927.
- R. L. Moore's principle and its converse. Read Sept. 9, 1926. *Comptes Rendus de Séances de la Société des Sciences et de Lettres de Varsovie, Classe III*, vol. 19, pp. 455-460; Dec., 1927.
- Existence theorems for implicit functions of real variables. Read Sept. 9, 1926. *This Bulletin*, vol. 34, No. 3, pp. 315-318; May-June, 1928.
- EVANS, G. C. Note on a theorem of Bôcher. Read Sept. 9, 1927. *American Journal of Mathematics*, vol. 50, No. 1, pp. 123-126; Jan., 1928.
- General Neumann problems for the sphere. Read April 16, 1927. *American Journal of Mathematics*, vol. 50, No. 1, pp. 127-138; Jan., 1928.
- FARNUM, F. On triadic Cremona nets of plane curves. Read Sept. 9, 1926. *American Journal of Mathematics*, vol. 50, No. 3, pp. 357-370; July, 1928.
- FLANDERS, D. A. Double elliptic geometry in terms of point, order, and congruence. Read May 7, 1927. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 534-548; Sept., 1927.
- FORD, W. B. On the behavior of integral functions in distant portions of the plane. Read Sept. 8, 1927. *This Bulletin*, vol. 34, No. 1, pp. 91-106; Jan.-Feb., 1928.
- FORSYTH, C. H. Amounts of investments at any number of rates of interest. Read Oct. 29, 1927. *This Bulletin*, vol. 34, No. 6, pp. 770-772; Nov.-Dec., 1928.
- FRANKLIN, P. The classification of quadrics in euclidean n -space, by means of covariants. Read Oct. 30, 1926. *American Mathematical Monthly*, vol. 34, No. 9, pp. 453-467; Nov., 1927.
- The canonical form of a one-parameter group. Read Dec. 29, 1926. *Annals of Mathematics*, (2), vol. 29, No. 2, pp. 113-122; April, 1928.
- A qualitative definition of the sub- and super-harmonic functions. Read May 7, 1927. *Journal of Mathematics and Physics of the Massachusetts Institute of Technology*, vol. 7, No. 2, pp. 86-92; June, 1928.

- FRINK, O. On the existence of linear algebras in boolean algebras. Read Jan. 1, 1926. *This Bulletin*, vol. 34, No. 3, pp. 329-333; May-June, 1928.
- GAGE, W. H. Asymptotic satellites near the equilibrium point in the isosceles triangle solution of the problem of three bodies. (Elliptical case.) Read (San Francisco Section) June 18, 1927. *Transactions of the Royal Society of Canada*, (3), vol. 21, Section III, pp. 377-390; May, 1927.
- GARABEDIAN, C. A. Correction de certains résultats sur la flexion d'une plaque circulaire épaisse donnés par de Saint-Venant dans la célèbre "Note finale du paragraphe 45" de la traduction de Clebsch. Read Dec. 28, 1926. *Journal de l'Ecole Polytechnique*, (2), vol. 26, pp. 89-112; 1927.
- Sur les plaques épaisses circulaires et rectangulaires chargées au centre. Read Dec. 29, 1927. *Comptes Rendus de l'Académie des Sciences*, vol. 186, No. 23, pp. 1518-1520; June 4, 1928.
- GARVER, R. Division algebras of order sixteen. Read Feb. 26, 1927. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 493-500; Sept., 1927.
- Tschirnhaus transformations on certain rational cubics. Read Oct. 29, 1927. *American Mathematical Monthly*, vol. 34, No. 10, pp. 521-525; Dec., 1927.
- A rational normal form for certain quartics. Read Oct. 29, 1927. *This Bulletin*, vol. 34, No. 1, pp. 73-74; Jan.-Feb., 1928.
- A new normal form for quartic equations. Read April 7, 1928. *This Bulletin*, vol. 34, No. 3, pp. 310-314; May-June, 1928.
- The Tschirnhaus transformation. Read April 7, 1928. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 319-333; July, 1928.
- GEHMAN, H. M. Concerning end points of continuous curves and other continua. Read April 2 and Sept. 9, 1926. *Transactions of this Society*, vol. 30, No. 1, pp. 63-84; Jan., 1928.
- Concerning certain types of non-cut points, with an application to continuous curves. Read April 7, 1928. *Proceedings of the National Academy of Sciences*, vol. 14, No. 5, pp. 431-433; May, 1928.
- Concerning irreducible continua. Read Dec. 28, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 5, pp. 433-435; May, 1928.
- GERGEN, J. J. On generalized lacunae. Read April 16, 1927. *American Journal of Mathematics*, vol. 49, No. 3, pp. 407-418; July, 1927.
- GERGEN, J. J., and WIDDER, D. V. On Taylor's series admitting the circle of convergence as a singular curve. Read Sept. 9, 1927. *American Journal of Mathematics*, vol. 50, No. 1, pp. 139-146; Jan., 1928.
- GLENN, O. E. Complete systems of differential invariants. Read Sept. 11, 1925. *Proceedings of the London Mathematical Society*, (2), vol. 27, No. 1, pp. 72-80; Sept., 1927.
- A memoir on the invariants of biternary quantics. Read May 1 and Sept. 9, 1926. *American Journal of Mathematics*, vol. 50, No. 2, pp. 209-230; April, 1928.
- Theorems of finiteness in formal concomitant theory, modulo P.

- Read Dec. 28, 1920, and Feb. 26, 1921. *Proceedings of the International Mathematical Congress held in Toronto*, vol. I, pp. 331–345; 1928.
- Differential combinants and associated parameters. Read May 3, 1924. *Proceedings of the International Mathematical Congress held in Toronto*, vol. I, pp. 373–385; 1928.
- GRIFFITHS, L. W. Generalized quaternion algebras and the theory of numbers. Read Sept. 9, 1926. *American Journal of Mathematics*, vol. 50, No. 2, pp. 302–314; April, 1928.
- GRONWALL, T. H., LAMER, V. K., and SANDVED, K. Über den Einfluss der sogenannten höheren Glieder in der Debye-Hückelschen Theorie der Lösungen starker Elektrolyte. Read Oct. 30, 1926. *Physikalische Zeitschrift*, vol. 29, No. 12, pp. 358–393; June 15, 1928.
- GROVE, V. G. Transformations of nets. Read Dec. 31, 1926. *Transactions of this Society*, vol. 30, No. 3, pp. 483–497; July, 1928.
- HASKELL, M. W. Curves autopolar with respect to a finite number of conics. Read (San Francisco Section) Oct. 23, 1920. *Proceedings of the International Mathematical Congress held in Toronto*, vol. I, pp. 715–717; 1928.
- HASSLER, J. O. Plane nets whose first and minus first Laplacian transforms each degenerate into a straight line. Read April 6, 1928. *This Bulletin*, vol. 34, No. 5, pp. 591–599; Sept.-Oct., 1928.
- HEDRICK, E. R. On derivatives of non-analytic functions. Read (San Francisco Section) April 7, 1928. *Proceedings of the National Academy of Sciences*, vol. 14, No. 8, pp. 649–654; Aug., 1928.
- HILDEBRANDT, T. H. Note on interchange of order of limits. Read Sept. 8, 1927. *This Bulletin*, vol. 34, No. 1, pp. 79–81; Jan.-Feb., 1928.
- HILL, L. S. Properties of certain aggregate functions. Read Sept. 9, 1926. *American Journal of Mathematics*, vol. 49, No. 3, pp. 419–432; July, 1927.
- HILLE, E. Note on the behavior of certain power series on the circle of convergence with application to a theorem of Carleman. Read Feb. 25, 1928. *Proceedings of the National Academy of Sciences*, vol. 14, No. 3, pp. 217–220; March, 1928.
- A class of functional equations. Read Oct. 28, 1922. *Annals of Mathematics*, (2), vol. 29, No. 2, pp. 215–222; April, 1928.
- HODGE, F. H. A generalization of the strophoid. Read April 15, 1922. *American Mathematical Monthly*, vol. 34, No. 10, pp. 527–529; Dec., 1927.
- HOFMANN, L., and KASNER, E. Homographic circles or clocks. With an appendix on polygenic functions by E. Kasner. Read Feb. 25, 1928. *This Bulletin*, vol. 34, No. 4, pp. 495–503; July-Aug., 1928.
- HOLLCROFT, T. R. The generalized Hessian. Read May 7, 1927. *Quarterly Journal of Mathematics*, vol. 50, No. 4, pp. 362–372; Sept., 1927.
- On (3, 3) and higher point correspondences. Read Feb. 26, 1927. *American Journal of Mathematics*, vol. 49, No. 4, pp. 553–564; Oct., 1927.
- On nets of manifolds in i dimensions. Read Oct. 29, 1927. *Annali di Matematica*, (4), vol. 5, No. 4, pp. 261–267; Sept., 1928.

- HOTELLING, H. Differential equations subject to error, and population estimates. Read (San Francisco Section) April 2, 1927. *Journal of the American Statistical Association*, new ser., vol. 22, No. 159, pp. 283-314; Sept., 1927.
- Spaces of statistics and their metrization. Read Sept. 9, 1927. *Science*, new ser., vol. 67, No. 1728, pp. 149-150; Feb. 10, 1928.
- HUNTINGTON, E. V. The notion of probable error in elementary statistics. Read Dec. 29, 1927. *Science*, new ser., vol. 66, No. 1722, pp. 633-637; Dec. 30, 1927.
- The apportionment of representatives in Congress. Read Dec. 28, 1920, Feb. 26, April 23, Sept. 8, and Dec. 28, 1921, and Feb. 25, 1922. *Transactions of this Society*, vol. 30, No. 1, pp. 85-110; Jan., 1928.
- HURWITZ, W. A. On Bell's arithmetic of boolean algebras. Read April 7, 1928. *Transactions of this Society*, vol. 30, No. 2, pp. 420-424; April, 1928.
- JACKSON, D. A problem in minima. Read April 16, 1927. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 587-592; Sept., 1927.
- On the approximate representation of analytic functions. Read Sept. 8, 1927. *This Bulletin*, vol. 34, No. 1, pp. 56-62; Jan.-Feb., 1928.
- Some non-linear problems in approximation. Read Dec. 28, 1926. *Transactions of this Society*, vol. 30, No. 4, pp. 621-629; Oct., 1928.
- JAMES, G. An integration method of summing series. Read (San Francisco Section) April 2, 1927. *Annals of Mathematics*, (2), vol. 29, No. 1, pp. 79-87; Dec., 1927.
- KASNER, E. A new theory of polygenic (or non-monogenic) functions. Read Oct. 29, 1927. *Science*, new ser., vol. 66, No. 1720, pp. 581-582; Dec. 16, 1927.
- General theory of polygenic or non-monogenic functions. The derivative congruence of circles. Read Oct. 29 and Dec. 29, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 1, pp. 75-82; Jan., 1928.
- Transversality in space of three dimensions. Read Sept. 9 and Oct. 31, 1914. *Transactions of this Society*, vol. 30, No. 3, pp. 447-452; July, 1928.
- Note on the derivative circular congruence of a polygenic function. Read Sept. 6, 1928. *This Bulletin*, vol. 34, No. 5, pp. 561-565; Sept.-Oct., 1928.
- The second derivative of a polygenic function. Read April 6, 1928. *Transactions of this Society*, vol. 30, No. 4, pp. 803-818; Oct., 1928.
- See HOFMANN, L.
- KETCHUM, P. W. Analytic functions of hypercomplex variables. Read Sept. 7, 1928. *Transactions of this Society*, vol. 30, No. 4, pp. 641-667; Oct., 1928.
- KLING, J. R. Separation theorems and their relation to recent developments in analysis situs. Read May 7, 1927. *This Bulletin*, vol. 34, No. 2, pp. 155-192; March-April, 1928.
- KOOPMAN, B. O. On the inversion of analytic transformations. Read

- Oct. 29, 1927. *This Bulletin*, vol. 34, No. 5, pp. 565-572; Sept.-Oct., 1928.
- LAMER, V. K. See GRONWALL, T. H.
- LANE, E. P. Joint-axis congruences with indeterminate developables. Read Sept. 3, 1919. *Tôhoku Mathematical Journal*, vol. 29, Nos. 3-4, pp. 363-375; May, 1928.
- The projective differential geometry of systems of linear homogeneous differential equations of the first order. Read Dec. 29, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 785-796; Oct., 1928.
- Canonical configurations associated with a surface. Read Sept. 6, 1928. *This Bulletin*, vol. 34, No. 6, pp. 737-744; Nov.-Dec., 1928.
- LANE, E. P., and STOFFER, E. B. Recent developments in projective differential geometry. Read April 6, 1928. *This Bulletin*, vol. 34, No. 4, pp. 453-472; July-Aug., 1928.
- LANGER, R. E., and TAMARKIN, J. D. On integral equations with discontinuous kernels. Read Dec. 28, 1926. *Transactions of this Society*, vol. 30, No. 3, pp. 453-471; July, 1928.
- LANGFORD, C. H. Theorems on deducibility. Read Dec. 29, 1926. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 459-471; Sept., 1927.
- Concerning logical principles. Read (San Francisco Section) Oct. 29, 1927. *This Bulletin*, vol. 34, No. 5, pp. 573-582; Sept.-Oct., 1928.
- LATIMER, C. G. On certain indefinite quaternary forms representing all integers. Read Sept. 9, 1927. *Annals of Mathematics*, (2), vol. 28, No. 3, pp. 327-329; July, 1927.
- A note on quaternary forms. Read Sept. 9, 1927. *American Mathematical Monthly*, vol. 34, No. 7, pp. 363-364; Sept., 1927.
- LUBBEN, R. G. Concerning limiting sets in abstract spaces. Read Sept. 6, 1928. *Transactions of this Society*, vol. 30, No. 4, pp. 668-685; Oct., 1928.
- The double elliptic case of the Lie-Riemann-Helmholtz-Hilbert problem of the foundations of geometry. Read Sept. 10, 1925. *Fundamenta Mathematicae*, vol. 11, pp. 35-95; 1928.
- MACDUFFEE, C. C. A correspondence between matrices and quadratic ideals. Read April 15, 1927. *Annals of Mathematics*, (2), vol. 29, No. 2, pp. 199-214; April, 1928.
- MARIA, A. J. Generalized derivatives. Read May 1, 1926. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 419-432; Sept., 1927.
- MATHEWS, R. M. Cubic curves and desmic surfaces; second paper. Read April 2, 1926. *Transactions of this Society*, vol. 30, No. 1, pp. 19-23; Jan., 1928.
- MEARS, F. M. Riesz summability for double series. Read Sept. 9, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 686-709; Oct., 1928.
- MERRIMAN, G. M. Concerning the summability of double series of a certain type. Read May 7, 1927. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 515-533; Sept., 1927.
- The convergence of double Fourier series of a certain type. Read April 3, 1926. *This Bulletin*, vol. 34, No. 3, pp. 319-322; May-June, 1928.

- A set of necessary and sufficient conditions for the Cesàro summability of double series. Read April 3, 1926. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 343–354; July, 1928.
- MILLER, G. A. Number of systems of imprimitivity of transitive substitution groups. Read Dec. 28, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 1, pp. 82–84; Jan., 1928.
- Possible orders of two generators of the alternating and of the symmetric group. Read Dec. 31, 1926. *Transactions of this Society*, vol. 30, No. 1, pp. 24–32; Jan., 1928.
- Note on the history of logarithms. Read Sept. 9, 1926. *Tôhoku Mathematical Journal*, vol. 29, Nos. 3–4, pp. 308–311; May, 1928.
- MILNE, W. E. The behavior of a boundary value problem as the interval becomes infinite. Read (San Francisco Section) June 2, 1928. *Transactions of this Society*, vol. 30, No. 4, pp. 797–802; Oct., 1928.
- MOORE, L. T. The nodes of the rational plane quartic. Read May 7, 1927. *This Bulletin*, vol. 34, No. 4, pp. 476–478; July-Aug., 1928.
- MOORE, L. T., and NEELLEY, J. H. Rational tacnodal and oscnodal quartic curves considered as plane sections of quartic surfaces. Read May 7, 1927. *American Journal of Mathematics*, vol. 50, No. 3, pp. 467–472; July, 1928.
- MOORE, R. L. Some separation theorems. Read Sept. 9, 1927. *Proceedings of the National Academy of Sciences*, vol. 13, No. 10, pp. 711–716; Oct., 1927.
- Concerning triods in the plane and the junction points of plane continua. Read Dec. 28, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 1, pp. 85–88; Jan., 1928.
- On the separation of the plane by a continuum. Read Dec. 28, 1927. *This Bulletin*, vol. 34, No. 3, pp. 303–306; May-June, 1928.
- A separation theorem. Read (San Francisco Section) June 18, 1927. *Fundamenta Mathematicae*, vol. 12, pp. 295–297; 1928.
- MOORE, T. W. On the invariant combinants of two binary quintics. Read Feb. 26, 1927. *American Journal of Mathematics*, vol. 50, No. 3, pp. 415–430; July, 1928.
- MORITZ, R. E. On an extension of Glaisher's generalization of Wilson's theorem. Read (San Francisco Section) June 19, 1925. *Tôhoku Mathematical Journal*, vol. 28, Nos. 3–4, pp. 198–201; Sept., 1927.
- A modification of the reducing balance method of estimating depreciation. Read (San Francisco Section) June 18, 1927. *The Accountant*, vol. 77, No. 2761, pp. 614–617; Nov. 5, 1927.
- The general solution of a certain diophantine equation in three unknowns. Read (San Francisco Section) June 18, 1927. *American Mathematical Monthly*, vol. 35, No. 1, pp. 47–49; Jan., 1928.
- MORLEY, F. See COBLE, A. B.
- MORSE, M. The foundations of a theory in the calculus of variations in the large. Read Dec. 30, 1924, and Sept. 9 and Dec. 29, 1926. *Transactions of this Society*, vol. 30, No. 2, pp. 213–274; April, 1928.
- MUSSELMAN, J. R. On an imprimitive group of order 5184. Read Dec. 29, 1924, and May 7, 1927. *American Journal of Mathematics*, vol. 49, No. 3, pp. 355–366; July, 1927.

- NEELLEY, J. H. Compound singularities of the plane rational quartic curve. Read Sept. 8 and Dec. 28, 1926. *American Journal of Mathematics*, vol. 49, No. 3, pp. 389-400; July, 1927.
- A note on the rational plane quartic curve with cusps or undulations. Read Dec. 28, 1927. *This Bulletin*, vol. 34, No. 5, pp. 639-645; Sept.-Oct., 1928.
- See MOORE, L. T.
- ORE, O. Newtonsche Polygone in der Theorie der algebraischen Körper. Read Oct. 29, 1927. *Mathematische Annalen*, vol. 99, Nos. 1-2, pp. 84-117; April, 1928.
- Some theorems on the connection between ideals and group of a Galois field. Read Oct. 29, 1927. *Transactions of this Society*, vol. 30, No. 3, pp. 610-620; July, 1928.
- PERKINS, F. W. An intrinsic treatment of Poisson's integral. Read Jan. 2, 1926. *American Journal of Mathematics*, vol. 50, No. 3, pp. 389-414; July, 1928.
- PFEIFFER, G. A. A property of the level lines of a region with a rectifiable boundary. Read May 7, 1927. *This Bulletin*, vol. 34, No. 5, pp. 656-664; Sept.-Oct., 1928.
- PIERPONT, J. Optics in spaces of constant non-vanishing curvature. Read Feb. 26, 1927. *American Journal of Mathematics*, vol. 49, No. 3, pp. 343-354; July, 1927.
- Optics in hyperbolic space. Read Dec. 29, 1926. *Transactions of this Society*, vol. 30, No. 1, pp. 33-48; Jan., 1928.
- Mathematical rigor, past and present. Read Dec. 28, 1927. *This Bulletin*, vol. 34, No. 1, pp. 23-53; Jan.-Feb., 1928.
- On the geometry whose absolute is a ruled quadric. Read May 7, 1927. *Monatshefte für Mathematik und Physik*, vol. 35, No. 1, pp. 111-128; 1928.
- RAINICH, G. Y. Principle of paraphrase, second form. Read Jan. 1, 1926. Printed in E. T. Bell's Algebraic arithmetic, *American Mathematical Society Colloquium Publications*, vol. 7, pp. 69-72; 1927.
- Radiation and relativity. I. Read April 15, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 6, pp. 484-488; June, 1928.
- Radiation and relativity. II. Read Dec. 31, 1926. *Proceedings of the National Academy of Sciences*, vol. 14, No. 8, pp. 654-657; Aug., 1928.
- RAWLES, T. H. Two classes of periodic orbits with repelling forces. Read Feb. 25, 1928. *This Bulletin*, vol. 34, No. 5, pp. 618-630; Sept.-Oct., 1928.
- The invariant integral and the inverse problem in the calculus of variations. Read Dec. 28, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 765-784; Oct., 1928.
- REYNOLDS, C. N. On the problem of coloring maps in four colors, II. Read Dec. 28, 1923 and Dec. 29, 1926. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 477-492; Sept., 1927.

- Some theorems on the zeros of solutions of self-adjoint homogeneous linear differential equations of the fifth order. Read Sept. 2, 1919. *Bulletin of the West Virginia University Scientific Association*, vol. 3, No. 1, pp. 26–32; Aug., 1926 (published in 1928).
- RICHARDSON, R. G. D. A problem in the calculus of variations with an infinite number of auxiliary conditions. Read Sept. 11, 1925. *Transactions of this Society*, vol. 30, No. 1, pp. 155–189; Jan., 1928.
- RICHMOND, D. E. Geodesics on surfaces of genus zero with knobs. Read Jan. 2, 1926. *Transactions of this Society*, vol. 30, No. 1, pp. 49–62; Jan., 1928.
- Number relations between types of extremals joining a pair of points. Read May 7 and Oct. 29, 1927. *American Journal of Mathematics*, vol. 50, No. 3, pp. 371–388; July, 1928.
- RIDER, P. R. Minimizing two types of definite integral. Read Dec. 28, 1927. *Annals of Mathematics*, (2), vol. 29, No. 2, pp. 189–193; April, 1928.
- RITT, J. F. On certain points in the theory of Dirichlet series. Read Oct. 29, 1927. *American Journal of Mathematics*, vol. 50, No. 1, pp. 73–86; Jan., 1928.
- ROBERTSON, H. P. Bemerkung über separierbare Systeme in der Wellenmechanik. Read Oct. 29, 1927. *Mathematische Annalen*, vol. 98, No. 5, pp. 749–752; Jan., 1928.
- ROOS, C. F. A dynamical theory of economics. Read Oct. 29, 1927. *Journal of Political Economy*, vol. 35, No. 5, pp. 632–636; Oct., 1927.
- A mathematical theory of depreciation and replacement. Read Sept. 9, 1927. *American Journal of Mathematics*, vol. 50, No. 1, pp. 147–157; Jan., 1928.
- The problem of depreciation in the calculus of variations. Read Sept. 9, 1927. *This Bulletin*, vol. 34, No. 2, pp. 218–228; March-April, 1928.
- Generalized Lagrange problems in the calculus of variations. Read Dec. 31, 1926. *Transactions of this Society*, vol. 30, No. 2, pp. 360–384; April, 1928.
- ROTH, W. E. A solution of the matrix equation $P(X) = A$. Read Dec. 29, 1927. *Transactions of this Society*, vol. 30, No. 3, pp. 579–596; July, 1928.
- SANDVED, K. See GRONWALL, T. H.
- SCHELKUNOFF, S. A. On certain properties of the metrical and generalized metrical groups in linear spaces of n dimensions. Read Sept. 8, 1927. Dissertation, Columbia. Hamburg, Lütcke and Wulff, 1927. 8+42 pp.
- SEELY, C. Kernels of positive type. Read Oct. 29, 1927. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 313–318; July, 1928.
- SERGHIESCO, S. Sur le nombre des racines communes à plusieurs équations simultanées. Read Feb. 25, 1928. Abstract in *Comptes Rendus de l'Académie des Sciences*, vol. 186, No. 4, pp. 211–213; Jan. 23, 1928.
- SHAUB, H. C. Rational involutorial transformations in S_4 which leave invariant ∞^3 quadric varieties. Read Oct. 30, 1926. *American Journal of Mathematics*, vol. 49, No. 3, pp. 367–382; July, 1927.

- SHEFFER, I. M. On entire function interpolation. Read Dec. 31, 1926. *American Journal of Mathematics*, vol. 49, No. 3, pp. 329–342; July, 1927.
- SHOHAT, J. A. (CHOKHATE, J.). Sur la convergence des quadratures mécaniques dans un intervalle infini. Application au problème des moments, au calcul des probabilités. Read April 7, 1928. Abstract in *Comptes Rendus de l'Académie des Sciences*, vol. 186, No. 6, pp. 344–346; Feb. 6, 1928.
- SIMMONS, H. A. Strong and weak inequalities involving the ratio of two chords or arcs of a circle; chains of inequalities. Read Dec. 28, 1927. *American Mathematical Monthly*, vol. 35, No. 3, pp. 122–130; March, 1928.
- SLOTNICK, M. M. A contribution to the theory of fundamental transformations of surfaces. Read Oct. 29, 1927. *Transactions of this Society*, vol. 30, No. 1, pp. 190–212; Jan., 1928.
- A method of applying tensor analysis to the study of rectilinear congruences. Read Oct. 29, 1927. *Mathematische Zeitschrift*, vol. 28, No. 1, pp. 107–115; March, 1928.
- SMITH, H. L. On relative content and Green's lemma. Read April 3, 1926. *Transactions of this Society*, vol. 30, No. 2, pp. 405–419; April, 1928.
- STONE, M. H. A characteristic property of certain sets of trigonometric functions. Read Feb. 26, 1927. *American Journal of Mathematics*, vol. 49, No. 4, pp. 535–542; Oct., 1927.
- The normal probability function and general frequency functions. Read Feb. 26, 1927. *American Journal of Mathematics*, vol. 49, No. 4, pp. 543–552; Oct., 1927.
- STOUFFER, E. B. Expressions for the general determinant in terms of its principal minors. Read April 2, 1926. *American Mathematical Monthly*, vol. 35, No. 1, pp. 18–21; Jan., 1928.
- Some canonical forms and associated canonical expansions in projective differential geometry. Read (Southwestern Section) Nov. 26, 1927. *This Bulletin*, vol. 34, No. 3, pp. 290–302; May–June, 1928.
- See LANE, E. P.
- STRUIK, D. J., and WIENER, N. A relativistic theory of quanta. Read May 7, 1927. *Journal of Mathematics and Physics of the Massachusetts Institute of Technology*, vol. 7, No. 1, pp. 1–23; Nov., 1927.
- The fifth dimension in relativistic quantum theory. Read Dec. 29, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 3, pp. 262–268; March, 1928.
- STURDIVANT, J. H. Second-order linear systems with summable coefficients. Read Sept. 9, 1926. *Transactions of this Society*, vol. 30, No. 3, pp. 560–566; July, 1928.
- SWINGLE, P. M. An unnecessary condition in two theorems of analysis situs. Read Dec. 29, 1925. *This Bulletin*, vol. 34, No. 5, pp. 607–618; Sept.-Oct., 1928.
- TAMARKIN, J. D. See LANGER, R. E.
- TAYLOR, J. H. Parallelism and transversality in a sub-space of a general (Finsler) space. Read April 16, 1927. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 620–628; Sept., 1927.

- THOMAS, J. M. Incomplete systems of partial differential equations. Read Sept. 7, 1928. *Proceedings of the National Academy of Sciences*, vol. 14, No. 8, pp. 666-670; Aug., 1928.
- TRJITZINSKY, W. J. Relations satisfied by coefficients of periodic solutions. Read (San Francisco Section) June 18, 1927. *Annals of Mathematics*, (2), vol. 29, No. 1, pp. 17-20; Dec., 1927.
- Representation of functions determined by their initial values. Read (San Francisco Section) June 18, 1927. *Annals of Mathematics*, (2), vol. 29, No. 1, pp. 73-78; Dec., 1927.
- Expansion in series of non-inverted factorials. Read Sept. 9, 1927. *This Bulletin*, vol. 34, No. 2, pp. 193-196; March-April, 1928.
- UŠPENSKY, J. V. On the development of arbitrary functions in series of Hermite's and Laguerre's polynomials. Read Dec. 31, 1926. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 593-619; Sept., 1927.
- On Jacobi's arithmetical theorems concerning the simultaneous representation of numbers by two different quadratic forms. Read Dec. 31, 1926. *Transactions of this Society*, vol. 30, No. 2, pp. 385-404; April, 1928.
- On the convergence of quadrature formulas related to an infinite interval. Read April 16, 1927. *Transactions of this Society*, vol. 30, No. 3, pp. 542-559; July, 1928.
- VANDIVER, H. S. Transformations of the Kummer criteria in connection with Fermat's last theorem. (Second paper.) Read Dec. 29, 1926. *Annals of Mathematics*, (2), vol. 28, No. 4, pp. 451-458; Sept., 1927.
- VEBLEN, O. Projective tensors and connections. Read Dec. 29, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 2, pp. 154-166; Feb., 1928.
- WALSH, J. L. On the expansion of analytic functions in series of polynomials and in series of other analytic functions. Read Sept. 9, 1927. *Transactions of this Society*, vol. 30, No. 2, pp. 307-332; April, 1928.
- On approximation to an arbitrary function of a complex variable by polynomials. Read Dec. 28, 1927. *Transactions of this Society*, vol. 30, No. 3, pp. 472-482; July, 1928.
- On the degree of approximation to an analytic function by means of rational functions. Read Sept. 7, 1928. *Transactions of this Society*, vol. 30, No. 4, pp. 838-847; Oct., 1928.
- WARD, M. General arithmetic. Read (San Francisco Section) Oct. 29, 1927. *Proceedings of the National Academy of Sciences*, vol. 13, No. 11, pp. 748-749; Nov., 1927.
- WEAVER, J. H. Properties of two points associated with a triangle. Read Sept. 8, 1927. *American Mathematical Monthly*, vol. 35, No. 7, pp. 349-352; Aug.-Sept., 1928.
- WEISNER, L. Quadratic fields in which cyclotomic polynomials are reducible. Read Oct. 29, 1927. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 377-381; July, 1928.
- Polynomials $f[\phi(x)]$ reducible in fields in which $f(x)$ is irreducible. Read Feb. 25, 1928. *This Bulletin*, vol. 34, No. 6, pp. 745-751; Nov.-Dec., 1928.

- WEISS, M. J. Primitive groups which contain substitutions of prime order p and of degree $6p$ or $7p$. Read (San Francisco Section) Oct. 29, 1927. *Transactions of this Society*, vol. 30, No. 2, pp. 333-359; April, 1928.
- WHEELER, A. P. Linear ordinary self-adjoint differential equations of the second order. Read Jan. 1, 1926. *American Journal of Mathematics*, vol. 49, No. 3, pp. 309-320; July, 1927.
- WHYBURN, G. T. Concerning the open subsets of a plane continuous curve. Read Dec. 31, 1926, and Feb. 26, 1927. *Proceedings of the National Academy of Sciences*, vol. 13, No. 9, pp. 650-657; Sept., 1927.
- Concerning the structure of a continuous curve. Read Dec. 31, 1926, and (San Francisco Section) June 18, 1927. *American Journal of Mathematics*, vol. 50, No. 2, pp. 167-194; April, 1928.
- Concerning the cut points of continua. Read Sept. 9, 1927. *Transactions of this Society*, vol. 30, No. 3, pp. 597-609; July, 1928.
- Concerning accessibility in the plane and regular accessibility in n dimensions. Read Dec. 29, 1927. *This Bulletin*, vol. 34, No. 4, pp. 504-510; July-Aug., 1928.
- Concerning plane closed point sets which are accessible from certain subsets of their complements. Read Dec. 28, 1927. *Proceedings of the National Academy of Sciences*, vol. 14, No. 8, pp. 657-666; Aug., 1928.
- On a problem of W. L. Ayres. Read Sept. 9, 1927. *Fundamenta Mathematicae*, vol. 11, pp. 296-301; 1928.
- Concerning Menger regular curves. Read Sept. 9 and (Southwestern Section) Nov. 26, 1927. *Fundamenta Mathematicae*, vol. 12, pp. 264-294; 1928.
- On certain accessible points of plane continua. Read Feb. 25 and April 8, 1928. *Monatshefte für Mathematik und Physik*, vol. 35, No. 2, pp. 289-304; 1928.
- See AYRES, W. L.
- WHYBURN, W. M. Second-order differential systems with integral and k -point boundary conditions. Read Feb. 26 and April 16, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 630-640; Oct., 1928.
- Existence and oscillation theorems for non-linear differential systems of the second order. Read Sept. 9, 1927. *Transactions of this Society*, vol. 30, No. 4, pp. 848-854; Oct., 1928.
- WIDDER, D. V. The singularities of a function defined by a Dirichlet series. Read April 16, 1927. *American Journal of Mathematics*, vol. 49, No. 3, pp. 321-328; July, 1927.
- A generalization of Taylor's series. Read Dec. 29, 1926. *Transactions of this Society*, vol. 30, No. 1, pp. 126-154; Jan., 1928.
- See GERGEN, J. J.
- WIENER, N. Coherency matrices and quantum theory. Read April 6, 1928. *Journal of Mathematics and Physics of the Massachusetts Institute of Technology*, vol. 7, No. 2, pp. 109-125; June, 1928.
- A new method in Tauberian theorems. Read Feb. 26, 1927. *Journal of Mathematics and Physics of the Massachusetts Institute of Technology*, vol. 7, No. 3, pp. 161-184; Oct., 1923.

- See STRUIK, D. J.
- WILDER, R. L. On connected and regular point sets. Read April 7, 1928. *This Bulletin*, vol. 34, No. 5, pp. 649–655; Sept.-Oct., 1928.
- Concerning R. L. Moore's axioms Σ_1 for plane analysis situs. Read Dec. 28, 1927. *This Bulletin*, vol. 34, No. 6, pp. 752–760; Nov.-Dec., 1928.
- A characterization of continuous curves by a property of their open subsets. Read April 2, 1926. *Fundamenta Mathematicae*, vol. 11, pp. 127–131; 1928.
- On a certain type of connected set which cuts the plane. Read Dec. 30, 1924. *Proceedings of the International Mathematical Congress held in Toronto*, vol. I, pp. 423–437; 1928.
- WILLIAMS, A. R. Rational quintic surfaces with two skew double lines. Read (San Francisco Section) April 2, 1927. *This Bulletin*, vol. 34, No. 5, pp. 631–639; Sept.-Oct., 1928.
- The Montesano quintic surface. Read (San Francisco Section) April 7, 1928. *This Bulletin*, vol. 34, No. 6, pp. 761–770; Nov.-Dec., 1928.
- WILLIAMS, K. P. A comment on certain equations in the theory of radiative equilibrium. Read April 7, 1928. *Astrophysical Journal*, vol. 47, No. 4, pp. 296–304; May, 1928.
- WILLIAMSON, J. Conditions for associativity of division algebras connected with non-abelian groups. Read April 2 and Dec. 31, 1926. *Transactions of this Society*, vol. 30, No. 1, pp. 111–125; Jan., 1928.
- WILSON, W. A. On bounded regular frontiers in the plane. Read Oct. 29, 1927. *This Bulletin*, vol. 34, No. 1, pp. 81–90; Jan.-Feb., 1928.
- On irreducible cuts of the plane between two points. Read Sept. 9, 1927. *Annals of Mathematics*, (2), vol. 29, No. 3, pp. 382–388; July, 1928.
- Some properties of upper semi-continuous collections of bounded continua. Read Feb. 25, 1928. *This Bulletin*, vol. 34, No. 5, pp. 599–606; Sept.-Oct., 1928.
- WINGER, R. M. The equianharmonic cubic and its group. Read (San Francisco Section) June 18, 1927. *Tôhoku Mathematical Journal*, vol. 29, Nos. 3–4, pp. 376–400; May, 1928.
- YOUNG, J. W. A new formulation for general algebra. Read Dec. 28, 1911, April 26, 1913, Sept. 9, 1926, and Feb. 26, 1927. *Annals of Mathematics*, (2), vol. 29, No. 1, pp. 47–60; Dec., 1927.
- ZARYCKI, M. Allgemeine Eigenschaften der Cantorsche Kohärenzen. Read Feb. 25, 1928. *Transactions of this Society*, vol. 30, No. 3, pp. 498–506; July, 1928.