

INDEX OF VOLUME XXI.

- ARCHIBALD, R. C. See REVIEWS, under Hobson, Kommerell.
- BATEMAN, H. The Structure of the Æther, 299.
- BIRKHOFF, G. D. An Elementary Double Inequality for the Roots of an Algebraic Equation having Greatest Absolute Value, 494.
— See REVIEWS, under Blumenthal.
- BLISS, G. A. See REVIEWS, under Volterra.
- BÔCHER, M. On a Small Variation which Renders a Linear Differential System Incompatible, 1.
— The Smallest Characteristic Numbers in a Certain Exceptional Case, 6.
- BROWN, E. W. George William Hill, 1838–1914, 499.
— See REVIEWS, under Annuaire.
- BUCK, T. Report of the Twenty-Sixth Regular Meeting of the San Francisco Section, 165.
- CARMICHAEL, R. D. See REVIEWS, under Borel, Bowley, Dickson, Duhem, Fabry, Ingersoll, Mitzscherling, de Montessus, Pasch, Riesz, Voss.
- CARMICHAEL, R. D. and MASON, T. E. Note on the Roots of Algebraic Equations, 14.
- CHITTENDEN, E. W. The Converse of the Heine-Borel Theorem in a Riesz Domain, 179.
- COLE, F. N. Reports of Meetings of the American Mathematical Society: Twenty-First Summer Meeting, 57; October Meeting, 161; Twenty-First Annual Meeting, 269; February Meeting, 373; April Meeting in New York, 481.
— Note on Solvable Quintics, 462.
- COOLIDGE, J. L. See REVIEWS, under Manning, Sommerville.
- COWLEY, E. B. See REVIEWS, under Schröder.
- DICKSON, L. E. Invariants, Seminvariants, and Covariants of the Ternary and Quaternary Quadratic Form Modulo 2, 174.
— See REVIEWS, under Lehmer, Minkowski.
- DINES, L. L. Complete Existential Theory of Sheffer's Postulates for Boolean Algebras, 183.
- EMCH, A. Note on "The Discovery of Inversion," 206.
— See REVIEWS, under Jordan, Study.
- EVANS, G. C. Note on the Derivative and the Variation of a Function Depending on All the Values of Another Function, 387.
- FISCHER, C. A. The Legendre Condition for a Minimum of a Double Integral with an Isoperimetric Condition, 380.

- FRIZELL, A. B. An Enumeration of Integral Algebraic Polynomials, 341.
 — Certain Non-Enumerable Sets of Infinite Permutations, 495.
- GLENN, O. E. Modular Invariant Processes, 167.
 — See REVIEWS, under Dickson, Engelhardt.
- GRAUSTEIN, W. C. See REVIEWS, under Dickson.
- GRIFFIN, F. L. See REVIEWS, under Martin.
- GRONWALL, T. H. On Approximation by Trigonometric Sums, 9.
 — See REVIEWS, under Cahen, Darboux, Gans, Klein, Liebmann, Netto, Neumann, Rothe.
- HASKINS, C. N. Mr. Paaswell's Appeal to Producing Mathematicians, 343.
- HEDRICK, E. R. See REVIEWS, under Hadamard.
- HILDEBRANDT, T. H. On a Generalization of a Theorem of Dini on Sequences of Continuous Functions, 113.
- HITCHCOCK, F. L. See REVIEWS, under Hall.
- HURWITZ, W. A. See REVIEWS, under Hardy.
- KELLOGG, O. D. Report of the Eighth Regular Meeting of the Southwestern Section, 217.
- KEYSER, C. J. See REVIEWS, under Berkeley.
- KÜSTERMANN, W. W. Proof of the Convergence of Poisson's Integral for Non-Absolutely Integrable Functions, 120.
- LEFSCHETZ, S. The Equation of Picard-Fuchs for an Algebraic Surface with Arbitrary Singularities, 227.
- LEIB, D. D. See REVIEWS, under Elliott, Killing.
- LONGLEY, W. R. See REVIEWS, under Guichard, Lecornu, Prescott.
- LYTLE, E. B. See REVIEWS, under Cobb, Collins, Whitford.
- MCKELVEY, J. V. See REVIEWS, under v. Dalwigk, Smith, D. E.
- MASON, T. E. See CARMICHAEL, R. D.
 — See REVIEWS, under M'Lachlan.
- MILLER, G. A. Note on the Potential and the Anti-Potential Group of a Given Group, 221.
- MILNE, W. E. Note on Removable Singularities, 116.
- MORGAN, F. M. See REVIEWS, under Aubert, Marsh.
- PAASWELL, G. An Appeal to Producing Mathematicians, 127.
- PHILLIPS, H. B. See REVIEWS, under Kaye.
- PONZER, E. W. See REVIEWS, under Demartres, Fabry, Ott.
- PUTNAM, T. M. See REVIEWS, under Whitford.
- ROBBINS, R. B. See REVIEWS, under Richardson.
- ROEVER, W. H. A Geometric Derivation of a General Formula for the Southerly Deviation of Freely Falling Bodies, 444.
- ROWE, J. E. See REVIEWS, under Fite.
- SCHWEITZER, A. R. Remarks on Functional Equations, 23.

- SHAW, J. B. See REVIEWS, under *Boutroux*, *Poincaré*, *Volterra*.
- SLAUGHT, H. E. Reports of Meetings of the American Mathematical Society at Chicago: Winter Meeting, 285; April Meeting, 429.
- SMITH, D. E. The Napier Tercentenary Celebration, 123.
— See REVIEWS, under *Bioche*, *Gifford*, *Van Tuyl*, *Zeuthen*.
- SMITH, E. R. See REVIEWS, under *Smith*, P. F.
- SNYDER, V. See REVIEWS, under *Auerbach*, *Hjelmslev*, *Meyer*, v. *Sanden*, *Schmid*.
- VAN VLECK, E. B. The Rôle of the Point-Set Theory in Geometry and Dynamics, 321.
- VECCHI, M. On the Characteristics of the Principal Manuals of Elementary Geometry Published in Italy in the Course of the Last Fifty Years, 188.
- WILLIAMS, K. P. Concerning a Certain Totally Discontinuous Function, 117.
— See REVIEWS, under *Jacoby*.
- WILSON, E. B. Infinite Regions in Geometry, 73.
— See REVIEWS, under *Davis*, *Granville*, *Minkowski*, *Silberstein*, *Snyder*, *Vivanti*.

REVIEWS.

- Adhémar, R. d'. See *Montessus*, R. de.
- Annuaire pour l'An 1915, publié par le Bureau des Longitudes, E. W. BROWN, 417.
- Aubert, P. and *Papelier*, G. Exercices de Géométrie analytique, Tome premier, F. M. MORGAN, 201.
- Auerbach, F. Die graphische Darstellung, V. SNYDER, 205.
- Berkeley, H. Mysticism in Mathematics, C. J. KEYSER, 199.
- Bioche, C. Histoire des Mathématiques, D. E. SMITH, 412.
- Blumenthal, O. Principes de la Théorie des Fonctions entières d'Ordre infini, G. D. BIRKHOFF, 36.
- Borel, E. Le Hasard, R. D. CARMICHAEL, 361.
- Boutroux, P. Les Principes de l'Analyse mathématique, Tome premier, J. B. SHAW, 32.
- Bowley, A. L. A General Course of Pure Mathematics from Indices to Solid Analytical Geometry, R. D. CARMICHAEL, 39.
- Brenke, W. C. See *Davis*, E. W.
- Cahen, E. Théorie des Nombres, Tome premier, T. H. GRONWALL, 311.
- Cobb, H. E. Applied Mathematics, E. B. LYTLE, 255.
- Collins, J. V. Practical Algebra, Second Course, E. B. LYTLE, 137.
- Dalwigk, F. v. Vorlesungen über darstellende Geometrie, erster Band, J. V. MCKELVEY, 203.

- Darboux, G. *Leçons sur la Théorie générale des Surfaces et les Applications géométriques du Calcul infinitésimal, première Partie* (deuxième édition), T. H. GRONWALL, 312.
- Davis, E. W. and Brenke, W. C. *The Calculus*, edited by E. R. HEDRICK, E. B. WILSON, 471.
- Demartres, G. *Cours de Géométrie infinitésimale*, E. W. PONZER, 134.
- Dickson, L. E. *Elementary Theory of Equations*, R. D. CARMICHAEL, 247.
- *The Madison Colloquium Lectures on Mathematics, Part I: On Invariants and the Theory of Numbers*, O. E. GLENN, 464.
- *Linear Algebras*, W. C. GRAUSTEIN, 511.
- Duhem, P. *Le Système du Monde. Histoire des Doctrines cosmologiques de Platon à Copernic, Tome premier*, R. D. CARMICHAEL, 362.
- Elliott, E. B. *Algebra of Quantics* (second edition), D. D. LEIB, 132.
- Engel, F. See Liebmann, H.
- Engelhardt, P. *Untersuchungen über die im Schlusswort des Lie'schen Werkes "Geometrie der Berührungstransformationen" angedeuteten Probleme*, O. E. GLENN, 136.
- Fabry, E. *Démonstration du Théorème de Fermat*, R. D. CARMICHAEL, 40.
- *Problèmes d'Analyse mathématique*, E. W. PONZER, 134.
- Fiedler, R. See Jordan, C.
- Fite, W. B. *College Algebra*, J. E. ROWE, 97.
- Fréchet, M. See Hadamard, J.
- Gale, A. S. See Smith, P. F.
- Gans, R. *Einführung in die Vektoranalysis mit Anwendungen auf die mathematische Physik* (dritte Auflage), T. H. GRONWALL, 360.
- Gifford, E. *Natural Sines to Every Second of Arc, and Eight Places of Decimals*, D. E. SMITH, 254.
- Granville, W. A. *Elements of the Differential and Integral Calculus* (revised edition), edited by P. F. SMITH, E. B. WILSON, 471.
- Guichard, C. *Problèmes de Mécanique et Cours de Cinématique*, W. R. LONGLEY, 364.
- Hadamard, J. *Leçons sur le Calcul des Variations, recueillies par M. Fréchet, Tome premier*, E. R. HEDRICK, 30.
- Hall, T. P. *A Geometrical Vector Algebra*, F. L. HITCHCOCK, 415.
- Hardy, G. H. *Orders of Infinity. The "Infinitärrechenrechnung" of Paul Du Bois-Reymond*, W. A. HURWITZ, 201.
- Hedrick, E. R. See Davis, E. W.
- Hilbert, D. See Minkowski, H.
- Hjelmslev, J. *Darstellende Geometrie* (Handbuch der angewandten Mathematik herausgegeben von H. E. Timerding, zweiter Band), V. SNYDER, 256.
- Hobson, E. W. *"Squaring the Circle," A History of the Problem*, R. C. ARCHIBALD, 82.

- Hovestadt, H. See Killing, W.
- Hutchinson, J. I. See Snyder, V.
- Ingersoll, L. R. and Zobel, O. J. An Introduction to the Mathematical Theory of Heat Conduction with Engineering and Geological Applications, R. D. CARMICHAEL, 362.
- Jacoby, H. Astronomy, A Popular Handbook, K. P. WILLIAMS, 145.
- Jordan, C. and Fiedler, R. Contribution à l'Etude des Courbes convexes fermées et de certaines Courbes qui s'y rattachent, A. EMCH, 252.
- Karpinski, L. C. See Smith, D. E.
- Kaye, G. W. C. and Laby, T. H. Physical and Chemical Constants and Some Mathematical Functions, H. B. PHILLIPS, 102.
- Killing, W. and Hovestadt, H. Handbuch des mathematischen Unterrichts, zweiter Band, D. D. LEIB, 309.
- Klein, F. Elementarmathematik vom höheren Standpunkte aus, zweiter Teil (zweite Auflage), T. H. GRONWALL, 360.
- Kommerell, K. See Kommerell, V.
- Kommerell, V. and K. Allgemeine Theorie der Raumkurven und Flächen (zweite Auflage), R. C. ARCHIBALD, 99.
- Laby, T. H. See Kaye, G. W. C.
- Lanala, E. See Volterra, V.
- Lecornu, L. Cours de Mécanique, Tome premier, W. R. LONGLEY, 363.
- Lehmer, D. N. List of Prime Numbers from 1 to 10,006,721, L. E. DICKSON, 355.
- Liebmann, H. and Engel, F. Die Berührungstransformationen: Geschichte und Invariantentheorie, T. H. GRONWALL, 357.
- Lindemann, F. and L. See Poincaré, H.
- M'Lachlan, N. Practical Mathematics, T. E. MASON, 359.
- Manning, H. P. Geometry of Four Dimensions, J. L. COOLIDGE, 232.
- Marsh, H. W. Technical Trigonometry, F. M. MORGAN, 96.
- Martin, L. A. Text-Book of Mechanics, Vols. III and IV, F. L. GRIFFIN, 140; Vol. V, F. L. GRIFFIN, 524.
- Meyer, F. W. Differential- und Integralrechnung (zweite Auflage), erster Band: Differentialrechnung, V. SNYDER, 206.
- Mikami, Y. See Smith, D. E.
- Minkowski, H. Geometrie der Zahlen, zweite Lieferung, L. E. DICKSON, 131.
- Gesammelte Abhandlungen, herausgegeben von D. Hilbert, E. B. WILSON, 409.
- Mitzscherling, A. Das Problem der Kreisteilung, R. D. CARMICHAEL, 99.
- Montessus, R. de and Adhémar, R. d'. Calcul numérique, R. D. CARMICHAEL, 247.
- Netto, E. Elementare Algebra (zweite Auflage), T. H. GRONWALL, 360.
- Neumann, E. R. Beiträge zu einzelnen Fragen der höheren Potentialtheorie, T. H. GRONWALL, 101.

- Ott, K. Die angewandte Mathematik an den Deutschen mittleren Fachschulen der Maschinenindustrie, E. W. PONZER, 143.
- Papelier, G. See Aubert, P.
- Pasch, M. Veränderliche und Funktion, R. D. CARMICHAEL, 358.
- Pérès, J. See Volterra, V.
- Prescott, J. Mechanics of Particles and Rigid Bodies, W. R. LONGLEY, 416.
- Poincaré, H. Wissenschaft und Methode (Deutsch von F. und L. Lindemann), J. B. SHAW, 523.
- Richardson, S. F. Solid Geometry, R. B. ROBBINS, 414.
- Riesz, F. Les Systèmes d'Equations linéaires à une Infinité d'Inconnues, R. D. CARMICHAEL, 37.
- Rothe, R. Darstellende Geometrie des Geländes, T. H. GRONWALL, 361.
- Sanden, H. v. Praktische Analysis (Handbuch der angewandten Mathematik herausgegeben von H. E. Timerding, erster Band), V. SNYDER, 256.
- Schmid, T. Darstellende Geometrie, V. SNYDER, 204.
- Schröder, J. Die neuzeitliche Entwicklung des mathematischen Unterrichts an den höheren Mädchenschulen Deutschlands insbesondere Norddeutschlands, E. B. COWLEY, 244.
- Silberstein, L. Vectorial Mechanics, E. B. WILSON, 41.
- Smith, D. E. The Teaching of Geometry, J. V. MCKELVEY, 249.
- Smith, D. E. and Karpinski, L. C. The Hindu-Arabic Numerals, J. V. MCKELVEY, 202.
- Smith, D. E. and Mikami, Y. A History of Japanese Mathematics, J. V. MCKELVEY, 249.
- Smith, P. F. See Granville, W. A.
- Smith, P. F. and Gale, A. S. New Analytic Geometry, E. R. SMITH, 94.
- Snyder, V. and Hutchinson, J. I. Elementary Textbook on the Calculus, E. B. WILSON, 471.
- Sommerville, D. M. Y. The Elements of Non-Euclidean Geometry, J. L. COOLIDGE, 398.
- Study, E. Die realistische Weltansicht und die Lehre vom Raume, A. EMCH, 250.
- Timerding, H. E. See Hjelmlev, J., Sanden, H. v.
- Van Tuyl, G. H. Complete Business Arithmetic, D. E. SMITH, 138.
- Vivanti, G. Esercizi di Analisi Infinitesimale, E. B. WILSON, 471.
- Volterra, V. Sur quelques Progrès récents de la Physique mathématique, J. B. SHAW, 192.
- Drei Vorlesungen über neuere Fortschritte der mathematischen Physik (Deutsch von E. Lanala), J. B. SHAW, 192.
- Lecons sur l'Intégration des Equations différentielles aux Dérivées partielles, J. B. SHAW, 192.
- Lecons sur les Fonctions des Lignes, recueillies et rédigées par J. Pérès, G. A. BLISS, 345.

- Voss, A. Ueber das Wesen der Mathematik (zweite Auflage), R. D. CARMICHAEL, 359.
- Whiteford, J. The Trisection of the Angle by Plane Geometry: Verified by Trigonometry with Concrete Examples, E. B. LYTLE, 137.
- Whitford, E. E. The Pell Equation, T. M. PUTNAM, 357.
- Zeuthen, H. G. Die Mathematik im Altertum und Mittelalter, erster Abschnitt, D. E. SMITH, 130.
- Zobel, O. J. See Ingersoll, L. R.

Correction, 206.

Index of Volume XI, 543.

New Publications, 50, 106, 153, 210, 262, 316, 369, 425, 478, 529.

Notes, 43, 103, 148, 207, 259, 313, 365, 418, 476, 525.

Papers Read before the Society and Subsequently Published, Twenty-Fourth Annual List of, 533.

NOTES AND OTHER ITEMS.

Academies, Associations, Congresses, and Societies:

American Mathematical Society: Annual Meeting, 58, 148, 482; Committee on Mathematics in the Schools, 271, 482; Committee on the Relation of the Society to the Field of the American Mathematical Monthly, 271, 286, 482; Election of Officers, 270; Election of Officers of Chicago Section, 286; List of Officers and Members, 58, 149; New Members Admitted, 57, 161, 270, 373, 482; Office Fire, 149, 161; Presidential Address, 58, 148, 270; Statistics, 270; Summer Meeting, 58, 271, 365, 482; Transactions, 43, 149, 313, 418, 476, 482, 525.

Associations for the Advancement of Science: American, 58, 149, 207, 208, 259; British, 151; 525; French, 365.

Associations of Teachers of Mathematics: College Entrance Examination Board, 528; International Commission on the Teaching of Mathematics, 315, 367; New Jersey, 150, 477.

Berlin Academy, 104, 528; Deutsche Mathematiker-Vereinigung, 207; Edinburgh Mathematical Society, 207, 418, 525; Encyclopedia of Mathematical Sciences, 366, 367; London Mathematical Society, 47, 207, 314, 366, 418, 525; Mathematical Association, 315; National Academy of Sciences, 208; Paris Academy, 44, 104, 259; Prince Jablonowski Society, 44, 151; Royal Society, 208; Royal Venetian Institute, 419; Syracuse University Mathematical Club, 150.

Books, Announcement of New, 315, 366, 367, 419, 477.

Catalogues of Books, Models, etc., 153, 316, 424.

Doctorates in Mathematics: American, 103; French, 44.

Journals: American Journal of Mathematics, 44, 149, 313, 477; Annals of Mathematics, 150, 259, 365, 477, 525; Proceedings of the American Academy of Arts and Sciences, 314; Proceedings of the National Academy of Sciences, 314, 418; Transactions of the American Mathematical Society, 43, 149, 313, 418, 476, 482, 525.

Papers and Communications Presented to the Society, Authors:

- Alexander, J. W., II, 272, 484.
 Barrow, D. F., 272.
 Beal, F. W., 483.
 Beetle, R. D., 59.
 Birkhoff, G. D., 60, 272, 272, 483.
 Bliss, G. A., 287, 287, 430.
 Blumberg, H., 217, 287, 287.
 Böcher, M., 59, 59.
 Brenke, W. C., 218.
 Buchanan, D., 287, 287.
 Camp, B. H., 59, 374.
 Carmichael, R. D., 430, 430, 431.
 Carpenter, A. F., 287, 430.
 Chittenden, E. W., 430, 430.
 Clements, G. R., 287, 287.
 Coble, A. B., 271, 271.
 Cole, F. N., 272.
 Coolidge, J. L., 272.
 Cummings, L. D., 59, 483.
 Daniell, P. J., 217.
 Davis, E. W., 218.
 Dickson, L. E., 58, 59, 59, 59,
 166, 166, 287, 430, 430.
 Dines, C. R., 431, 431.
 Dresden, A., 287.
 Eisenhart, L. P., 58, 271.
 Emch, A., 287, 483.
 Epperson, C. A., 483.
 Evans, G. C., 59, 272.
 Fischer, C. A., 162, 483.
 Fite, W. B., 60.
 Ford, W. B., 430.
 Forsyth, C. H., 288, 374.
 Fréchet, M., 374.
 Frizell, A. B., 217, 271, 287, 374,
 431.
 Gillespie, D. C., 60.
 Glenn, O. E., 58, 374.
 Graustein, W. C., 272.
 Green, G. M., 162, 271, 483.
 Gronwall, T. H., 162, 272, 272,
 272, 484.
 Hart, W. L., 287, 430.
 Haskell, M. W., 166.
 Haskins, C. N., 272.
 Hathaway, A. S., 374.
 Hedrick, E. R., 218.
 Huntington, E. V., 59, 272, 483.
 Hurwitz, W. A., 59.
 Ingold, L., 217.
 Irwin, F., 166.
 Jackson, D., 271.
 Johnson, R. A., 59.
 Karpinski, L. C., 59.
 Kasner, E., 60, 60, 162, 272, 483,
 483.
 Kemble, E. C., 162.
 Kingston, H. R., 60, 288.
 Kline, J. R., 484.
 Lefschetz, S., 217, 217.
 Lehmer, D. N., 166.
 Linehan, P. H., 374.
 Love, C. E., 58, 430.
 Lovitt, W. V., 430, 430.
 Maclay, J., 272.
 MacMillan, W. D., 430.
 Mason, T. E., 59, 59.
 Miles, E. J., 374.
 Miller, G. A., 59, 272, 287, 287,
 431.
 Moore, C. N., 430.
 Moore, E. H., 430.
 Moore, R. L., 483, 483.
 Morgan, F. M., 58, 484.
 Moulton, E. J., 431.
 Moulton, F. R., 272, 430.
 Osgood, W. F., 271.
 Pell, A., 484.
 Pfeiffer, G. A., 162.
 Ranum, A., 271.
 Reed, L. J., 483.
 Richardson, R. G. D., 60.
 Rider, P. R., 374.
 Ritt, J. F., 374, 375, 483.
 Rosenbaum, J., 60.
 Rowe, J. E., 271, 483, 483.
 Safford, F. H., 483.
 Schmiedel, O., 217.
 Schweitzer, A. R., 287, 374.
 Seely, C. E., 271.
 Sharpe, F. R., 272.
 Shaw, J. B., 287.
 Sheffer, H. M., 218.
 Silverman, L. L., 59, 271.
 Sisam, C. H., 429.
 Smith, E. R., 59.
 Snyder, V., 272.
 Stecker, H. F., 483.
 Steimley, L. L., 287.
 Strachan, R. C., 483.
 Stouffer, E. B., 430.
 Sullivan, C. T., 430.
 Underhill, A. L., 287.
 Vallée Poussin, C. J. de la, 483.
 Vandiver, H. S., 59, 272, 483.
 Van Vleck, E. B., 271.
 Wahlin, G. E., 430.
 Weaver, J. H., 484.
 Wedderburn, J. H. M., 59.
 Weeks, E. A., 218.
 White, H. S., 59, 162, 483.
 Wilczynski, E. J., 287, 430.
 Wiley, F. B., 59.
 Williams, K. P., 162.
 Wilson, E. B., 374, 483.
 Young, J. W., 484.

Personal Notes:

Allen, E. S., 103, 478; Anderegg, F., 209; Andoyer, H., 104; Armellini, A., 262; Ashton, C. A., 528.

Barrow, D. F., 209; Barton, R. M., 262; Baruch, H. L., 424; Beetle, R. D., 103; Benedict, S. R., 50, 103; Bernstein, B. A., 103; Berry, A., 262; Bieberbach, L., 368; Blondel, A., 44; Blumberg, H., 152; Bohr, A., 48; Bompiani, E., 48; Bottasso, M., 315; Boutroux, P., 152; Bresse, M., 365; Brewster, J. A., 49; Brill, A. von, 104, 262; Bromwich, T. J. I'a., 207; Brooks, C. E., 105; Brown, E. W., 151, 208; Browne, P. J., 44; Bullard, J. A., 103; Burgess, H. T., 152; Burgess, R. W., 103; Burkhardt, H., 209; Bussey, W. H., 50.

Campbell, W. W., 259; Cantor, G., 528; Cantor, M., 423; Carmichael, R. D., 529; Carus, E. H., 105; Chevalier, P., 44; Coble, A. B., 418; Colpitts, M. A., 106; Comesatti, A., 48; Conwell, G. M., 529; Conwell, H. H., 528; Cotty, G., 44; Craig, C. F., 152, 529; Crudeli, U., 48; Cummings, L. D., 103.

Daniels, M., 106; Dauzer, O., 368; Davis, N. F., 528; Deimel, W., 208; Deimler, W., 368; Dickson, L. E., 49; Dines, C. R., 529; Dines, L. L., 105; Duval, E. P. R., 50; Dyson, F. D., 525.

Edington, W. E., 209; Edgeworth, T. W., 151; Eliot, C. W., 207; Escott, E. B., 153; Eshleman, J. D., 49.

Falckenberg, H., 261; Fasbinder, G., 44; Fehr, H., 315; Fine, H. B., 477; Fiske, T. S., 423; Ford, L. R., 152; Frary, H. D., 153; Fréchet, M., 104.

Gaba, M. G., 105; Gain, J. W., 103; Gaines, N. C., 208; Galajikian, H., 103, 424; Garrett, W. H., 106; Gauthier, A., 375; Gevrey, M., 45; Gish, O., 152; Glauert, H., 419; Glenn, O. E., 152; Gossard, H. C., 103, 423; Grace, J. H., 207; Graustein, W. C., 105; Graves, G. H., 103; Guccia, G. B., 209; Guillaume, M., 44; Gutzmer, A., 48.

Hardy, J. J., 478, 528; Hatzidakis, J. N., 262; Havelock, T. H., 316; Hayes, G. M., 49; Haynes, A. E., 424; Hellinger, E., 48; Henke, P. E., 152; Hettner, G., 151; Holman, W. F., 50; Holzinger, K. J., 528; Holzmüller, G., 368; Howard, L. O., 259; Hurwitz, W. A., 49, 418; Hutchinson, J. I., 418.

Jeffreys, H., 419; Johnson, H. T., 152; Jolles, C., 48, 262; Jones, J. L., 105; Jung, G., 367.

Karpinski, L. C., 424; Kells, L. M., 103; Kent, F. C., 423; Keyser, C. J., 423; Kircher, E. A. T., 103, 368; Klein, F., 419, 424; Koebe, P., 104, 208; Korn, A., 48; Krathwohl, W. C., 49, 103; Küstermann, W. W., 105.

Lackner, A., 368; LaMotte, F. A., 209; Lampe, E., 423; Landau, E., 527; Larmor, J., 47, 207; Larsen, A. W., 528; Latimer, H., 106; Lebesgue, H., 44; Lebon, E., 45; Lehmann-Filhés, R., 209; Leuschner, A. O., 259; Libby, B. B., 529; Lodge, O., 151; Love, A. E. H., 207; Luizet, M., 44.

MacInnes, C. R., 528; Marshall, R. H., 208; Marshall, W., 152; Mason, M., 418; Mason, T. E., 103; Mathewson, L. C., 103; Merrill, H. A., 528; Mertens, F., 528; Miller, B. I., 104; Miller, J. A., 423; Milne, W. J., 106; Miser, W. L., 104; Mitchell, H. H., 152; Mitchell, U. G., 528; Morrison, F. M., 104; Moulton, E. J., 104; Moulton, F. R., 208; Muir, T., 209.

Noether, M., 423.

Osgood, W. F., 423; Owen, L. G., 368; Owens, F. W., 529.

Pfeiffer, G. A., 368; Phillips, A. W., 316; Phillips, H. B., 424; Picken, D. K., 49; Picone, M., 48; Pirondini, G., 368; Pitcher, A. D., 528; Planck, M., 262, 528; Platrier, G., 45; Poincaré, H., 45; Pólya, G., 261; Popoff, K., 44; Prandtl, L., 527; Proudman, J., 419; Putnam, T. M., 105.

Ranum, A., 525; Reddick, H. W., 529; Reed, L. J., 152; Reinert, W. A., 153; Richardson, R. G. D., 209; Robbins, R. B., 104; Roche, L., 45; Rogers, G. T., 105; Rosati, E., 48, 261; Rothe, R., 151; Rouyer, L., 45; Rowe, J. E., 49; Runge, K., 104, 424; Rutledge, G., 529.

Salet, P., 44; Salkowski, E., 368; Scheffers, G., 48, 262; Schlesinger, F., 208; Schoenflies, A., 368; Schuster, A., 525; Schwarz, H. A., 208, 423; Schwarz, S. A., 49; Selling, E., 423; Shattuck, S. W., 368; Shaw, C., 152; Shenton, W. F., 104; Sherman, F. A., 424; Shugert, S. P., 104; Sinclair, M. E., 50; Slobin, H. L., 50; Smith, C. E., 152; Smith, D. E., 50; Smith, D. M., 262; Smith, E. R., 209; Smith, P. F., 482; Smith, W. M., 528; Snyder, V., 528; Stäckel, P., 48; Steimley, L. L., 528; Stetson, J. M., 104, 106, 528; Stouffer, E. B., 105; Swift, E., 49.

Tappan, A. H., 104; Taylor, G. I., 477; Thomae, J., 208, 423; Thomson, G. P., 262; Tonelli, L., 48; Tonolo, A., 48, 262; Toussaint, C. A., 49; Tripp, M. O., 49; Troussel, J., 45.

Vallée Poussin, C. J. de la, 315; Van der Vries, J. N., 105; Van Vleck, E. B., 49; Venturi, A., 316; Veronnet, A., 44; Vogt, W., 151.

Wangerin, A., 423; Warren, L. A. H., 104; Watson, G. N., 105; Wedderburn, J. H. M., 152; Wells, M. E., 50, 209; Wells, V. H., 105; Western, A. E., 207; White, H. S., 208, 423; White, M. B., 105; Whitford, E. E., 49; Whitehead, A. N., 104; Wiley, F. B., 105; Williams, K. P., 49; Williams, L. E., 49, 152; Wilson, W. H., 208; Woods, F. S., 528.

Yeaton, C. H., 424, 529; Young, M. M., 104; Young, J. W., 528.

Prizes:

Ackermann-Teubner, 419; Adams, 419, 477; Berlin Academy, 104; Cambridge University, 419; De Morgan Medal, 47; Helmholtz Medal, 528; Paris Academy, 44, 259; Poincaré Memorial, 45; Prince Jablonski Society, 44, 151; Royal Society Medal, 208; Royal Venetian Institute, 419.

Universities and Technical Schools:

Berlin, 260, 526.	Leipzig, 261, 527.
Bologna, 45.	Milan, 367.
Bonn, 526.	Munich, 151, 527.
California, 477.	Naples, 46.
Cambridge, 419.	Padua, 46.
Catania, 45.	Palermo, 46.
Chicago, 420.	Pavia, 47.
Columbia, 420, 421.	Pisa, 47.
Cornell, 315, 421.	Princeton, 422.
Frankfort, 260, 526.	Rome, 47.
Genoa, 46.	Strassburg, 261, 420.
Göttingen, 260, 526.	Turin, 47.
Harvard, 315, 421.	Yale, 422.
Johns Hopkins, 422.	