

INDEX OF VOLUME XXXVI

- AGNEW, R. P. On Uniform Summability of Sequences of Continuous Functions, 529.
- ALBERT, A. A. A Necessary and Sufficient Condition for the Non-Equivalence of Any Two Rational Generalized Quaternion Division Algebras, 535.
- A Note on an Important Theorem on Normal Division Algebras, 649.
- AYRES, W. L. On the Density of the Cut Points and End Points of a Continuum, 659.
- BARNETT, I. A. The Transformations Generated by an Infinitesimal Projective Transformation in Function Space, 273.
- BATEMAN, H. Some Properties of Spherical Harmonics, 306.
- BATEN, W. D. The Evaluation of certain Definite Integrals by the Use of Probability Functions, 433.
- See REVIEWS, under Gibbs.
- BELL, C. In- and Circumscribed Sets of Planes to Space Curves, 409.
- BELL, E. T. A Correspondence between Irregular Fields, 415.
- Numbers of Representations in certain Senary Quadratic Forms, 883.
- See REVIEWS, under Dedekind, Dickson.
- BENNETT, A. A. See REVIEWS, under Becker, Behmann, Enriques.
- BENTON, T. C. A Definition of an Unknotted Simple Closed Curve, 406.
- See REVIEWS, under Fraenkel, Kamke.
- BERNSTEIN, B. A. Report of the Thanksgiving Meeting in Pasadena, 10.
- BLUMBERG, H. On a Complete Characterization of the Set of Points of Unbounded Grade of an Arbitrary Surface, 655.
- Methods in Point Sets and the Theory of Real Functions, 809.
- BRENKE, W. C. On Polynomial Solutions of a Class of Linear Differential Equations of the Second Order, 77.
- BROWNE, E. T. The Characteristic Roots of a Matrix, 705.
- CAJORI, F. See SMITH, D. E.
- See REVIEWS, under Neugebauer.
- CAMPBELL, A. D. Edward Drake Roe, Jr., In Memoriam, 161.
- CARMICHAEL, R. D. Concerning Quasi- k -Fold Transitivity of Permutation Groups, 857.
- See REVIEWS, under Birtwistle, de Broglie, Lie, Nörlund, Weyl.
- CARPENTER, A. F. Note on Ruled Surfaces and their Developables, 525.
- COHEN, L. W. A Note on a System of Equations with Infinitely Many Unknowns, 563.
- COURT, N. A. See REVIEWS, under Mohr.
- CRAIG, H. V. On the Solution of the Euler Equations for their Highest Derivatives, 558.

- CURTISS, D. R. See REVIEWS, under Kowalewski.
- DICKSON, L. E. See REVIEWS, under Fricke.
- DINES, L. L. Linear Inequalities and some related Properties of Functions, 393.
- DODD, E. L. Probability as Expressed by Asymptotic Limits of Pencils of Sequences, 299.
- DORROH, J. L. Concerning a Set of Axioms for the Semi-Quadratic Geometry of a Three-Space, 719.
- DRESDEN, A. Reports of Meetings of the American Mathematical Society: October Meeting in New York, 5; February Meeting in New York, 321; April Meeting in New York, 327.
- EDITORS OF THIS BULLETIN. An Announcement, 1, 65.
- EMCH, A. On Algebraic Surfaces which are Invariant in a Certain Class of Finite Collineation Groups, 547.
- ENGSTROM, H. T. On the Generalization of Trigonometric Identities in Arithmetical Paraphrasing, 667.
- EVANS, G. C. See SMILEY, W. G.
- FEENBERG, E. A Commutation Rule in Quantum Mechanics, 650.
- FELD, J. M., and NEWMAN, P. On the Representation of Analytic Functions of Several Variables as Infinite Products, 284.
- FISHER, I. The Application of Mathematics to the Social Sciences, 225.
- FORSYTH, C. H. See REVIEWS, under Thiry.
- FORT, T. The General Theory of Factorial Series, 244.
- FOSTER, M. Theorems on Inverted and Rotated Congruences, 587.
- FRINK, O. The Fourth Postulates of Riesz and Hausdorff, 281.
- GARVER, R. On the Transformation which Leads from the Brioschi Quintic to a General Principal Quintic, 115.
- GLENN, O. E. See REVIEWS, under Turnbull.
- GRAUSTEIN, W. C. Invariant Methods in Classical Differential Geometry, 489.
- GRAVES, L. M. Discontinuous Solutions in the Calculus of Variations, 831.
- GRONWALL, T. H. See REVIEWS, under Bieberbach, Bonnesen, Bush, Larmor, Pascal, Perron.
- GROVE, V. G. On Canonical Forms of Differential Equations, 582.
- HILDEBRANDT, T. H. See REVIEWS, under Lebesgue, Rothe.
- HILTON, H. On Tri-Rhomboidal and Bi-Oscnodal Quintic Curves, 419.
- HOLL, D. L. See REVIEWS, under Timoshenko.
- HOLLCROFT, T. R. Invariant Postulation, 421.
- INGRAHAM, M. H. An Elementary Theorem on Matrices, 673.
- Reports of Meetings of the American Mathematical Society: Thanksgiving Meeting in Ann Arbor, 8; December Meeting at Des Moines, 156; April Meeting in Chicago, 331.

- JACKSON, D. On Certain Problems of Approximation in the Complex Domain, 851.
- JONES, B. W. Certain Quinary Forms related to the Sum of Five Squares, 721.
- KASNER, E. See REVIEWS, under Cesàro.
- KOOPMAN, B. O. See REVIEWS, under Birkhoff.
- LANGFORD, C. H. See REVIEWS, under Hilbert.
- LAPAZ, L. Problems of the Calculus of Variations with Prescribed Transversality Conditions, 674.
- LEHMER, D. H. A Fallacious Principle in the Theory of Numbers, 847.
- LEHMER, E. T. A Numerical Function applied to Cyclotomy, 291.
- LINDSAY, R. B. See REVIEWS, under Pacotte.
- LONGLEY, W. R. See REVIEWS, under Bisacre, Bouligand, Bouy, Fry, Knopp, Lévy, Ramsey, Roy, Walther, Willers.
- MCCLENON, R. B. See REVIEWS, under Cajori, Loria.
- MCCOY, N. H. Note on the Existence of a Positive Function Orthogonal to a Given Set of Functions, 878.
- MCDONNELL, J. New Criteria Associated with Fermat's Last Theorem, 553.
- MATHEWS, R. M. See REYNOLDS, C. N.
- MICHAL, A. D. Geodesic Coordinates of Order r , 541.
- MILLER, F. H. An Application of the Method of Parameters to Linear Partial Differential Equations, 120.
- MILLER, G. A. Inverse Correspondences in Automorphisms of Abelian Groups, 277.
- MITCHELL, U. G. See REVIEWS, under Cajori.
- MOLINA, E. C. The Theory of Probability: Some Comments on Laplace's *Théorie Analytique*, 369.
- MOORE, C. L. E. See REVIEWS, under Eckhart, Sommerville, Weitzenböck.
- MOORE, C. N. See REVIEWS, under Prasad.
- MURNAGHAN, F. D. See REVIEWS, under Lichtenstein, Mason, Page.
- MURRAY, F. H. Note on a Scholium of Bayes, 129.
- NEELLEY, J. H. Notes on the Rational Plane Oscnodal Quartic Curve, 269.
- NEWMAN, P. See FELD, J. M.
- NOWLAN, F. S. On the Direct Product of a Division and a Total Matric Algebra, 265.
- ORE, O. See REVIEWS, under Fulco, Haupt, Kaiser, Kronecker.
- OSGOOD, W. F. Note on Periodic Functions of Several Complex Variables, 413.
- PIERCE, T. A. Matrices whose Characteristic Equations are Cyclic, 262.
- PIERPONT, J. Non-Euclidean Geometry, a Retrospect, 66.
- PRASAD, G. On the Nature of θ in the Mean-Value Theorem of the Differential Calculus, 289.
- PUTNAM, R. G. Note on Separability, 127.
— Note on the Equivalence of certain Properties of Abstract Sets, 653.

- PUTNAM, T. M. Reports of Meetings of the American Mathematical Society:
April Meeting at Stanford, 325; June Meeting in Oregon, 449.
- RAINICH, G. Y. On a Decomposition of a Quaternary Quadratic Form, 107.
- RAYNOR, G. E., On the Extension of the Gauss Mean-Value Theorem in the
Neighborhood of Isolated Singular Points of Harmonic Functions, 887.
- REYNOLDS, C. N. Robert Maurice Mathews, In Memoriam, 161.
- RICHARDSON, R. G. D. The Society's Prizes, 3.
— Reports of Meetings of the American Mathematical Society: Thirty-
Sixth Annual Meeting, 145; Thirty-Sixth Summer Meeting, 601.
- RITT, J. F. See REVIEWS, under Ford.
- ROBERTS, J. H. A Note concerning Cactoids, 894.
- ROE, E. D. See CAMPBELL, A. D.
- ROOS, C. F. See REVIEWS, under Fisher.
- ROWE, C. H. On Certain Doubly Infinite Systems of Curves on a Surface, 695.
- SHAW, J. B. See REVIEWS, under Lagally, Lotze, Valentiner.
- SMILEY, W. G., and EVANS, G. C. The First Variation of a Functional, 427.
- SMITH, D. E. Florian Cajori, 777.
— See REVIEWS, under Demel, Loria, The Rhind Mathematical Papyrus.
- SMITH, P. A. Examples of Surface Transformations, 572.
- SNYDER, V. The Simplest Involutorial Transformation Contained Multiply
in a Line Complex, 89.
— See REVIEWS, under Comessatti, Julia, Mukhopadhyaya, d'Ocagne.
- STARCHER, G. W. A Solution of a Simple Functional Equation as a Basis for
Readily Obtaining certain Fundamental Formulas in the Theory of
Elliptic Functions, 577.
- STONE, M. H. Hausdorff's Theorem concerning Hermitian Forms, 259.
- STRUIK, D. J. Correlation and Group Theory, 869.
— See REVIEWS, under Bloch, Carmichael, DeDonder, Fry, Scheffers.
- TAMARKIN, J. D. A Lemma of the Theory of Linear Differential Systems, 99.
— See REVIEWS, under Encyklopädie, Gans, Hellinger, Lainé.
- TRACEY, J. I. See REVIEWS, under Johnson.
- USPENSKY, J. V. On the Reduction of the Indefinite Binary Quadratic Forms,
710.
— On Incomplete Numerical Functions, 743.
- VAIDYANATHASWAMY, R. The Identical Equations of the Multiplicative Func-
tion, 762.
- WHYBURN, G. T. The Rationality of certain Continuous Curves, 522.
— See REVIEWS, under Sierpinski.
- WHYBURN, W. M. On Related Difference and Differential Systems, 94.
— A Set of Cyclicly Related Functional Equations, 863.
- WIDDER, D. V. Singular Points of Functions which Satisfy the Partial Dif-
ferential Equation of the Flow of Heat, 687.

- WILLIAMS, A. R. A Correspondence connected with a Pencil of Curves of Order n , 133.
——— A Series of Rational Surfaces, 735.
- WILLIAMS, K. P. See REVIEWS, under Batchelder, Levi-Civita.
- WILSON, W. A. A Property of Continua Equivalent to Local Connectivity, 85.
——— On the Phragmén-Brouwer Theorem, 111.
- WONG, B. C. On the Number of Apparent Multiple Points of Varieties in Hyperspace, 102.
——— On certain Ruled Hypersurfaces of Order $k - 1$ in r -Space, 533.
——— On Surfaces in Spaces of Four and Five Dimensions, 681.
——— On Loci of $(r - 2)$ -Spaces incident with Curves in r -Space, 755.
- ZARISKI, O. See REVIEWS, under Coble, Lefschetz.

REVIEWS

- Ackermann, W. See Hilbert, D.
- Amaldi, U. See Levi-Civita, T.
- Archibald, R. C. See The Rhind Mathematical Papyrus.
- Batchelder, P. M. An Introduction to Linear Difference Equations, K. P. WILLIAMS, 13.
- Becker, O. Mathematische Existenz, A. A. BENNETT, 472.
- Behmann, H. Mathematik und Logik, A. A. BENNETT, 615.
- Bieberbach, L. Analytische Geometrie, T. H. GRONWALL, 471.
- See Enriques, F.
- Birkhoff, G. D. Dynamical Systems, B. O. KOOPMAN, 162.
- Birtwistle, G. La Nouvelle Mécanique des Quanta, traduction augmentée de 4 appendices par les traducteurs, M. Ponte et Y. Rocard, préface de J. Hadamard, R. D. CARMICHAEL, 459.
- Bisacre, F. F. P. Praktische Infinitesimalrechnung, berechtigte Deutsche Ausgabe unter Mitwirkung von E. Trefftz, herausgegeben von E. König, W. R. LONGLEY, 613.
- Bloch, E. L'Ancienne et la Nouvelle Théorie des Quanta, D. J. STRUIK, 620.
- Bonnesen, T. Les Problèmes des Isopérimètres et des Isépiphanes, T. H. GRONWALL, 617.
- Bouligand, G. Compléments et Exercices sur la Mécanique des Solides, avec la collaboration de J. Dollon, W. R. LONGLEY, 615.
- Bouny, F. Leçons de Mécanique Rationnelle, volume 2, W. R. LONGLEY, 619.
- de Broglie, L. Einführung in die Wellenmechanik, übersetzt von R. Peierls, R. D. CARMICHAEL, 459.
- Bryan, W. L. See Carmichael, R. D.
- Bull, L. See The Rhind Mathematical Papyrus.
- Bush, V. Operational Circuit Analysis, with an appendix by N. Wiener, T. H. GRONWALL, 37.
- Cajori, F. A History of Mathematical Notations, two volumes, U. G. MITCHELL, 171.
- The Chequered Career of Ferdinand Rudolph Hassler, First Superintendent of the United States Coast Survey, R. B. McCLENON, 178.
- Carmichael, R. D., Davis, H. T., Hufford, M. E., and MacMillan, W. D. A Debate on Relativity, with an introduction by W. L. Bryan, D. J. STRUIK, 39.
- Cesàro, E. Vorlesungen über natürliche Geometrie (autorisierte Deutsche Ausgabe von G. Kowalewski, zweite Auflage), E. KASNER, 32.
- Chace, A. B. See The Rhind Mathematical Papyrus.
- Coble, A. B. Algebraic Geometry and Theta Functions, O. ZARISKI, 452.
- Comessatti, A. Lezioni di Geometria Analitica e Proiettiva, V. SNYDER, 474.
- Davis, H. T. See Carmichael, R. D.

- Dedekind, R. Gesammelte Mathematische Werke, herausgegeben von R. Fricke, E. Noether, O. Ore, erster Band, E. T. BELL, 611.
- Demel, S. Platons Verhältnis zur Geschichte der Mathematik, D. E. SMITH, 174.
- Dickson, L. E. Introduction to the Theory of Numbers, E. T. BELL, 455.
- Dollon, J. See Bouligand, G.
- DeDonder, T. The Mathematical Theory of Relativity, D. J. STRUIK, 34.
- Eckhart, L. Der Vierdimensionale Raum, C. L. E. MOORE, 179.
- Encyklopädie der Mathematischen Wissenschaften. Zweiter Band: Analysis, dritter Teil, zweite Hälfte, J. D. TAMARKIN, 40.
- See Hellinger, E.
- Engel, E. See Lie, S.
- Enriques, F. Zur Geschichte der Logik (Deutsch von L. Bieberbach), A. A. BENNETT, 613.
- Fisher, I. The Theory of Interest as determined by Impatience to Spend Income and Opportunity to Invest it, C. F. Roos, 783.
- Ford, L. R. Automorphic Functions, J. F. RITT, 35.
- Fraenkel, A. Einleitung in die Mengenlehre (dritte Auflage), T. C. BENTON, 27.
- Fricke, R. Lehrbuch der Algebra, dritter Band, L. E. DICKSON, 31.
- See Dedekind, R.
- Fry, T. C. Probability and its Engineering Uses, D. J. STRUIK, 19.
- Elementary Differential Equations, W. R. LONGLEY, 173.
- Fulco, P. Congruenze Algebriche ed Esponenziali, Applicazioni, II, O. ORE, 34.
- Gans, R. Vektoranalysis mit Anwendungen auf Physik und Technik (sechste Auflage), J. D. TAMARKIN, 37.
- Gibbs, R. W. M. The Adjustment of Errors in Practical Science, W. D. BATEN, 621.
- Glanville, S. R. K. See The Rhind Mathematical Papyrus.
- Hadamard, J. See Birtwistle, G.
- Haupt, O. Einführung in die Algebra, erster und zweiter Band, O. ORE, 469.
- Heegaard, P. See Lie, S.
- Hellinger, E., und Toeplitz, O. Integralgleichungen und Gleichungen mit unendlichvielen Unbekannten (Sonderabdruck aus der Encyklopädie der Mathematischen Wissenschaften), J. D. TAMARKIN, 15.
- Hensel, K. See Kronecker, L.
- Hilbert, D., und Ackermann, W. Grundzüge der Theoretischen Logik, C. H. LANGFORD, 22.
- Hufford, M. E. See Carmichael, R. D.
- Johnson, R. A. Modern Geometry, J. I. TRACEY, 176.
- Julia, G. Principes Géométriques d'Analyse, V. SNYDER, 789.
- Kaiser, L. Über die Verhältniszahl des Goldenen Schnitts, die Reihe der mit ihr zusammenhängenden ganzen Zahlen und eine aus dieser abgeleitete Reihe, O. ORE, 614.
- Kamke, E. Mengenlehre, T. C. BENTON, 27.
- Knopp, K. Theory and Application of Infinite Series, translated from the second German edition by R. C. Young, W. R. LONGLEY, 614.

- König, E. See Bisacre, F. F. P.
- Kowalewski, G. Grundzüge der Differential- und Integralrechnung (vierte Auflage), D. R. CURTISS, 620.
- See Cesáro, E.
- Kronecker, L. Werke, vierter Band, herausgegeben von K. Hensel, O. ORE, 619.
- Lagally, M. Vektor-Rechnung, J. B. SHAW, 338.
- Lainé, E. Premières Leçons de Géométrie Analytique et de Géométrie Vectorielle, J. D. TAMARKIN, 32.
- Larmor, J. Mathematical and Physical Papers, two volumes, T. H. GRONWALL, 470.
- Lebesgue, H. Leçons sur l'Intégration et la Recherche des Fonctions Primitives, deuxième édition, T. H. HILDEBRANDT, 463.
- Lefschetz, S. Géométrie sur les Surfaces et les Variétés Algébriques, O. ZARISKI, 617.
- Levi-Civita, T., e Amaldi, U. Lezioni di Meccanica Razionale (seconda edizione), volume 1, e (prima edizione), volume 2, K. P. WILLIAMS, 781.
- Lévy, P. Cours de Mécanique, W. R. LONGLEY, 618.
- Lichtenstein, L. Grundlagen der Hydromechanik, F. D. MURNAGHAN, 787.
- Lie, S. Gesammelte Abhandlungen, herausgegeben von F. Engel und P. Heegaard, vierter Band, zweite Abteilung, R. D. CARMICHAEL, 337.
- Loria, G. Histoire des Sciences Mathématiques dans l'Antiquité Hellénique, D. E. SMITH, 177.
- Storia delle Matematiche, volume 1, R. B. McCLENON, 336.
- Lotze, A. Punkt- und Vektor-Rechnung, J. B. SHAW, 338.
- MacMillan, W. D. See Carmichael, R. D.
- Manning, H. P. See The Rhind Mathematical Papyrus.
- Mason, M., and Weaver, W. The Electromagnetic Field, F. D. MURNAGHAN, 622.
- Mohr, G. Euclides Danicus, N. A. COURT, 471.
- Mukhopadhyaya, S. Collected Geometrical Papers, part 1, V. SNYDER, 614.
- Neugebauer, O., Stenzel, J., und Toeplitz, O., herausgegeben von. Quellen und Studien zur Geschichte der Mathematik, Abteilung B, erster Band, erstes Heft, F. CAJORI, 36.
- Nörlund, N. E. Leçons sur les Equations Linéaires aux Différences Finies, R. D. CARMICHAEL, 25.
- Noether, E. See Dedekind, R.
- d'Ocagne, M. Cours de Géométrie Pure et Appliquée, V. SNYDER, 789.
- Ore, O. See Dedekind, R.
- Pacotte, J. Les Méthodes Nouvelles en Analyse Quantique, R. B. LINDSAY, 787.
- Page, L. Introduction to Theoretical Physics, F. D. MURNAGHAN, 38.
- Pascal, E. Repertorium der höheren Mathematik (zweite Auflage, herausgegeben von E. Salkowski und H. E. Timerding), erster Band, dritter Teilband, T. H. GRONWALL, 31.
- Peierls, R. See de Broglie, L.
- Perron, O. Die Lehre von den Kettenbrüchen (zweite Auflage), T. H. GRONWALL, 615.

- Ponte, M. See Birtwistle, G.
- Prasad, G. Six Lectures on Recent Researches in the Theory of Fourier's Series, C. N. MOORE, 33.
- Ramsey, A. S. Dynamics, W. R. LONGLEY, 616.
- The Rhind Mathematical Papyrus. British Museum 10057 and 10058. In two volumes. Edited and translated, with commentaries and bibliographies, by R. C. Archibald, L. Bull, A. B. Chace, S. R. K. Glanville, and H. P. Manning, D. E. SMITH, 166.
- Rocard, Y. See Birtwistle, G.
- Rothe, R. Höhere Mathematik, zweiter Teil, T. H. HILDEBRANDT, 28; (dritte Auflage), erster Teil, T. H. HILDEBRANDT, 471.
- Roy, L. Problèmes de Statique Graphique et de Résistance des Matériaux, W. R. LONGLEY, 615.
- Salkowski, E. See Pascal, E.
- Scheffers, G. Anwendung der Differential- und Integralrechnung auf Geometrie (dritte Auflage), erster und zweiter Band, D. J. STRUIK, 36.
- Sierpinski, W. Leçons sur les Nombres Transfinis, G. T. WHYBURN, 175.
- Sommerville, D. M. Y. An Introduction to the Geometry of n Dimensions, C. L. E. MOORE, 788.
- Stenzel, J. See Neugebauer, O.
- Thiry, R. Éléments de Mathématiques Financières, C. H. FORSYTH, 619.
- Timerding, H. E. See Pascal, E.
- Timoshenko, S. Strength of Materials, D. L. HOLL, 784.
- Toepplitz, O. See Hellinger, E., Neugebauer, O.
- Trefftz, E. See Bisacre, F. F. P.
- Turnbull, H. W. The Theory of Determinants, Matrices, and Invariants, O. E. GLENN, 29.
- Valentiner, S. Vektor-Analyse, J. B. SHAW, 338.
- Walther, A. Einführung in die Mathematische Behandlung Naturwissenschaftlicher Fragen, erster Teil, W. R. LONGLEY, 616.
- Weaver, W. See Mason, M.
- Weitzenböck, R. Der Vierdimensionale Raum, C. L. E. MOORE, 179.
- Weyl, H. Gruppentheorie und Quantenmechanik, R. D. CARMICHAEL, 459.
- Wiener, N. See Bush, V.
- Willers, F. A. Methoden der Praktischen Analysis, W. R. LONGLEY, 472.
- Young, R. C. See Knopp, K.

Abstracts of Papers Presented to the Society, 45, 184, 347, 481, 628, 795.

Index of Volume XXXVI, 919.

New Publications, 139, 315, 441, 593, 773, 897.

Notes, 41, 180, 340, 475, 623, 791.

Papers Read before the Society and Subsequently Published, Thirty-ninth Annual List of, 901.

NOTES AND OTHER ITEMS

Academies, Associations, Congresses, and Societies:

American Mathematical Society: Auditors' Report, 148; Budget, 148; Bulletin, 1, 65, 149, 449, 605, 791; By-Laws, 5, 322, 333, 449; Colloquia, 149, 149, 601; Committee on a Journal of Applied Mathematics, 322; on Missouri Meeting, 149; on Nominations, 149; on Reorganization of Prizes, 3, 149; on Summer Meetings, 604, 605; on Western Meetings, 149; to cooperate with the Society for the Promotion of Engineering Education, 605; Dates and Places of Meetings, 149, 332, 333, 449, 604; Dues, 149, 322; Election of Officers, 150; Endowment Fund, 148; Gibbs Lectures, 156, 604; Librarian's Report, 148; New Members Admitted, 146, 147, 148, 321, 332, 603, 604; Prizes, 3, 149; Representatives on Chicago World's Fair Committee, 149, 322; on Editorial Board of the Annals of Mathematics, 149; on Joint Committee of Engineering Statistics, 322; on National Research Council, 149; Statistics, 148; Transactions, 605; Treasurer's Report, 148; Visiting Lecturer, 322, 332, 476.

Associations for the Advancement of Science: American, 181; British, 340, 791.

Accademia Pontificia dei Nuovi Lincei, 340; American Academy of Arts and Sciences, 623; American Chemical Society, 340; American Society of Mechanical Engineers, 180; American Statistical Association, 340; Amsterdam Academy, 41; Bologna Academy, 475; British Institution of Electrical Engineers, 181; Congress of Mathematicians of the Slavic Countries, 340; Congress of Mathematicians of the USSR, 180, 475; Edinburgh Mathematical Society, 180; Franklin Institute, 340; General Education Board, 605; Harvard Mathematical Colloquium, 180; International Actuarial Congress at Stockholm, 623; International Congress of Applied Mathematics, 180; International Institute of Statistics, 624; Italian Society of Sciences, 623; Kharkow Mathematical Society, 475; Königsberger Gelehrte Gesellschaft, 791; Laserre Foundation, 181; London Mathematical Society, 180; London Physical Society, 475; Mathematical Association of America, 41, 180, 181; National Academy of Sciences, 605; National Research Council, 149; New York Academy of Sciences, 475; Paris Academy of Sciences, 181; Reale Accademia Petrarca di Lettere, Scienze ed Arti, 475; Rockefeller Institute, 341; Royal Society of Edinburgh, 475; Royal Society of London, 41; St. Andrews Mathematical Colloquium, 180; Scandinavian Mathematical Congress, 180; Sociedad Scientifica "Antonio Alzate," 475; Society for the Promotion of Engineering Education, 605; Society of Arts, 475; Society of Arts and Sciences, 340; Turin Academy, 340; Verein Deutscher Ingenieure, 41; Westinghouse Research Laboratories, 476.

Books, Announcement of New, 41, 41, 149, 180, 180, 475.

Doctorates in Mathematics, American, 342.

Fellowships: Guggenheim, 477; National Research, 182, 791; Rockefeller International Research, 792.

Journals:

Annals of Mathematical Statistics, 340; *Annals of Mathematics*, 149; *Bulletin of the American Mathematical Society*, 1, 65, 149, 449, 605, 791; *Ingenieur-Archiv*, 340; *Mathematica*, 623; *Quarterly Journal of Mathematics* (Oxford Series), 475; *Studia Mathematica*, 41; *Transactions of the American Mathematical Society*, 605.

Papers and Communications Presented to the Society, Authors:^{*}

Abernethy, J. R., 9 (54); Adams, C. R., 153 (194); Adkisson, V. W., 329 (356); Agnew, R. P., 328 (351), 329 (353), 608 (637), (804); Albert, A. A., 6 (45), 6 (45), 154 (198), 154 (199), 154 (199), 154 (199), 323 (213), 323 (214), 328 (349), 328 (351), (647), (804); Anderson, E. W., 159 (205); Anderson, N. L., 160 (210); Archibald, R. C., 156; Arnold, H. E., 323 (212); Ayres, W. L., 158 (203), 334 (358), 606 (485).

Bamforth, F. R., 153 (195); Barnett, I. A., 9 (58); Basoco, M. A., 325 (221), 325 (221); Baten, W. D., 9 (55), 335 (363), 610 (643); Bell, C., 11 (62), 325 (223); Bell, E. T., 11 (59), 11 (60), 11 (60), 325 (347), 325 (347), 325 (347), 325 (348), 450 (365), 450 (365), 450 (365), 450 (366); Benton, T. C., 324 (217); Bernstein, B. A., 325 (223); Berry A. C., 610 (644); Bisshopp, K. E., 609 (485); Blue, A. H., 160 (210); Blumberg, H., 331; Blumenthal, L. M., 9 (57), 334 (220); Borofsky, S., 6 (48), 323 (213); Boyce, M. G., 335 (363); Brown, A. B., 7 (52), 329 (355), 450 (366), (799); Browne, E. T., 609 (640), 609 (640); Buchanan, D., 450 (366), 450 (367); Buchanan, H. E., (808); Bumer, C. T., 160 (208); Bunyan, L. H., 607 (632); Bush, V., 150.

Cady, W. M., 328 (351); Cairns, S. S., 450 (481), 606 (630); Cajori, F., 11 (62), 450 (367); Calugaréano, G., 154 (197); Campbell, A. D., 151 (187); Campbell, J. W., 451 (484); Carlitz, L., 328 (349), 328 (351); Carmichael, R. D., 609 (639), 609 (639), 609 (639), 609 (640), (647), (648); Carpenter, A. F., 450 (367); Carter, H. C., 159 (208); Chang, H. C., 9 (56); Cleveland, C. M., 607 (632); Coe, C. J., 8 (53); Cohen, L. W., 7 (52); Copeland, A. H., 333 (357), 607 (634); Craig, C. C., 6 (47); Curry, H. B., 154 (200), 154 (200), 606 (630).

Daus, P. H., 12 (63); Davies, G. R., 159 (207); Davis, D. R., 450 (481); Davis, H. T., 9 (54), 328 (350), 607 (633), 607 (635); Debely, N., 325 (223); Diamond, A. H., (800); Dickson, L. E., 324 (217), 335 (364); Dines, L. L., 156; Donahue, J. E., 323 (212), 323 (214); Doole, H. P., (803), (803); Dorroh, J. L., (801); Dostal, B. F., 153 (192); Douglas, J., 7 (49), 7 (50), 152 (189), 152 (189), 152 (190), 152 (190), (796), (797), (797), (798); Durfee, W. H., 607 (634); Dye, L. A., 324 (217).

Eiesland, J., 606 (486); Elder, J. D., 12 (63); Emch, A., 334 (220);

* Numbers within parentheses refer to abstracts, and those outside parentheses to titles as listed in reports of meetings.

Engstrom, H. T., 11 (63), 326 (223), 608 (638); Escott, E. B., 335 (362); Evans, G. C., 324 (215); Evans, H. P., 159 (205).

Farrell, O. J., 151 (185); Feld, J. M., 7 (52), 450 (482); Féraud, L., 608 (637); Finan, E. J., 335 (362); Fisher I., 156; Fisk, N. C., 9 (53); Fort, T., 5, 8; Foster, A. L., 606 (631); Foster, M. C., 329 (354); Foster, R. M., 450 (367); Franklin, P., 7 (49), 153 (193), 609 (638); Fréchet, M., 329 (352); Frink, O., 155 (200), 323 (214).

Gaba, M. G., 160 (211); Garabedian, H. L., 329 (353); Garver, R., 11 (61), 11 (62), 451 (368), (801); Gehman, H. M., 9 (53), 155 (200); Gergen, J. J., 609 (641); Gillespie, D. C., 151 (186); Glenn, O. E., 7 (51), 607 (486); Graustein, W. C., 327; Graves, L. M., 8, (805), (806); Griffin, F. L., 606 (629); Griffiths, L. W., (806); Groat, B. F., 153 (194), 610 (643); Gronwall, T. H., 7 (51), 151 (186), 324 (218); Grove, V. G., 334 (361), (803).

Haskell, M. W., 10 (58); Hedlund, G. A., 608 (636), 608 (636); Herrick, E. R., 11 (59), 451 (368), (801); Hildebrandt, T. H., 601; Hille, E., 151 (185), 606 (628); Hinrichsen, J. J. L., 159 (205); Hofmann, L., 323 (212), (800); Holl, D. L., 159 (208); Hollcroft, T. R., 152 (187), 329, (355), 606 (629), (800); Holmes, C. T., 608 (636); Hotelling, H., 153 (191), 159 (207); Howitt, N., 329 (352); Hull, R., 328 (348); Hurwitz, W. A., 151 (185), 151 (186); Hutchinson, J. I., 606 (486).

Ingold, L., 160 (210); Ingraham, M. H., 9 (57), 608 (486); Ingram, W. H., 11 (60), 11 (61), 11 (61).

Jackson, D., 606 (629); Jeffery, R. L., 151 (186), 328 (349), 606 (629); Jonah, F. C., 151 (184); Jones, B. W., 11 (62), 326 (222), (795).

Kasner, E., 7 (51), 324 (218), 329 (353), 606 (487), (796); Keller, E. G., 153 (192); Kellogg, O. D., 156 (202), 610 (645); Kempner, A. J., 608 (638); Kennison, L. S., 451 (482), 451 (482), 609 (485); Kimball, B. F., 329 (354), 609 (641); Knebelman, M. S., 152 (189); Korzybski, A., (796), (796), (796).

Lamson, K. W., 609 (642); Lane, E. P., 158 (202), 333 (212), 334 (359); Langdon, W. L., 6 (47); Langer, R. E., 333 (220), 609 (642); LaPaz, L., 324 (215), 334 (359); Larew, G. A., (808); Latimer, C. G., 153 (194); Latshaw, V. V., 9 (54); Lefschetz, S., 330 (357), 601; Lehmer, D. H., 6 (46), 6 (46), (801); Lehmer, D. N., 11 (60); Lehr, A. M. M., 152 (191); Levy, H., 335 (361), 335 (361); Littauer, S. B., 608 (637); Lubin, C. I., 610 (646).

McCoy, D., 160 (211); McCoy, N. H., 608 (637), 609 (487); McEwen, W. H., 610 (645); McFarlan, L. H., 451 (482); McShane, E. J., (800); MacDuffee, C. C., 333 (358), (806); Maier, W., 334 (360); March, H. W., 150; Marden, M., 160 (211), 607 (635), 609 (641); Mellish, A. P., 152 (188); Mendel, C. W., 333 (219), 334 (358); Meyer, H. A., 159 (206); Michal, A. D., 158 (203), 159 (208), 160 (208), 160 (209), 160 (209), 160 (209), 326 (222), 451 (482), 608 (484), 608 (484), 608 (485); Miller, E. W., 334 (361); Miller, F. H., 6 (48); Miller, G. A., 158 (204); Milne, W. E., 326 (222), 451 (483); Mitchell, A. K., 6 (48); Molina, E. C., 323; Moore,

C. L. E., 7 (49), 609 (638); Moore, C. N., 9 (55), 158 (203), 606 (628); Moore, L. T., 154 (198); Moritz, R. E., 451 (483); Morse, M., 153 (195), 607 (633), (799); Munro, G. C., 335 (363).

Nadai, A., 150; Neelley, J. H., 152 (188), 606 (630); Newman, P., 7 (52); Nowlan, F. S., 328 (348).

Oakley, C. O., 151 (185), 607 (635), 609 (641); Ore, O., 6 (47), 153 (193), 323 (213).

Pall, G., 11 (62), 326 (223), (802); Paradiso, L. J., (807); Park, R. H., 150; Parkinson, G. A., 9 (53); Peek, R. L., 153 (193); Pennell, W. O., 334 (220); Perkins, F. W., 607 (634); Peterson, O. J., 333 (221); Pierce, T. A., 159 (204); Pierpont, J., 7 (51); Pollock, S. A., 326 (222); Poor, V. C., 9 (57); Poritsky, H., 154 (196), 154 (197), 610 (645); Putnam, R. G., 155 (202), 329 (356).

Rainich, G. Y., 333 (218), 607 (487); Rashevsky, N., 609 (643); Raynor, G. E., 159 (207); Rechard, O. H., (802); Reid, W. T., 9 (56), 158 (204), 334 (359); Reynolds, C. N., 606 (488); Reynolds, J. B., 153 (192); Rider, P. R., 159 (206), (807); Rietz, H. L., 159 (206); Ritt, J. F., 7 (48), 329 (353); Roberts, J. H., 155 (201), 155 (201), 323 (214), 329 (355), (808); Ross, A. E., 9 (56), 335 (364), 335 (364); Rupp, C. A., 152 (187); Rutledge, G., 324 (217); Rutt, N. E., 155 (201).

Schlauch, H. M., 154 (198); Schultz, H., 159 (206); Sharpe, F. R., 152 (187), 152 (187), 153 (191); Sheffer, I. M., 151 (184), 154 (196), 328 (350); Shohat, J. A., 154 (197), 154 (197), 329 (352), 607 (633), (795); Shover, G., (806); Sibert, H. W., 610 (644); Simmons, H. A., 9 (54), 9 (58); Slotnick, M. M., 160 (209); Small, J. B., 451 (483); Smiley, W. G., 324 (215); Smith, P. A., 323 (214); Smith, R. G., (647); Snyder, V., 152 (188), 152 (191); Sokolnikoff, I. S., 334 (360); Stafford, E. T., 335 (362); Starcher, G. W., 334 (221); Struik, D. J., 152 (188), 153 (193), 327; Swanson, F. E., 451 (483); Swingle, P. M., 7 (49), 334 (358), (647).

Tamarkin, J. D., 7 (49), 151 (185), 601, 606 (628); Teach, V. B., 9 (55); Thomas, J. M., (805); Thomas, T. Y., 327; Thompson, W. R., 6 (47), 153 (194); Timoshenko, S., 150; Trjitzinsky, W. J., 154 (196), 610 (646), (795); Turner, J. S., 159 (204), 160 (210).

Uspensky, J. V., 12 (64), 326 (348), 451 (484), 451 (484).

Veblen, O., 327.

Wahlin, G. E., (805); Wall, H. S., 159 (207), 610 (646); Walsh, J. L., 324 (218), 608 (635); Ward, M., 12 (63), 326 (224), 326 (224); Weeks, D. W., 609 (642); Weida, F. M., 153 (191); Weiss, M. J., 158 (203); Wexler, C., 328 (349); White, H. S., 608 (638); Whitehead, J. H. C., 329 (354); Whitney, H., 324 (216), 329 (352), (798), (798); Whyburn, G. T., 324 (215), 324 (215), 324 (216), 324 (216), 330 (356), 330 (357), 330 (357), 607 (631), 607 (632); Whyburn, W. M., 10 (58), 11 (59), 326 (223), (802); Widder, D. V., 154 (195); Wiener, N., 607 (634); Wilder, M. A., 610 (644); Wilder, R. L., 606 (219), (804); Williams, A. R., 11 (59); Williams, K. P., 334 (360); Williams, W. L. G., 154 (199); Williamson, J., 154 (198); Wil-

son, W. A., 7 (51), 7 (52), 155 (201), 607 (631), 607 (631); Wood, F. E., 160 (209); Woodard, D. W., 329 (355); Wren, F. L., (807); Wyant, E. K., 158 (204).

Zariski, O., 152 (188); Zeigel, M., (806); Zippin, L., 329 (356), (799), (803), (805).

Personal Notes:

Adams, D. P., 479, 605; Adkisson, V. W., 624; Adshead, J. G., 624; Agnew, R. P., 791; Albanese, G., 341; Albert, A. A., 791; Alexander, J. W., 476; Alger, P. L., 322; Allen, M., 479; Ames, L. D., 605; Anderson, A. E., 479; Anderson, N. L., 342; Anderson, R. L., 479; Andoyer, H., 341, 791; Andress, W. R., 475; Archibald, R. C., 41; Arnold, C. L., 477; Aston, F. W., 623; Ayres, W. L., 791.

Babcock, R. W., 344; Baker, G. A., 342; Ballantine, J. P., 624; Bamforth, F. R., 42, 344; Banach, S., 41; Banerji, A. C., 341; Barker, J. W., 344; Basoco, M. A., 342, 624; Batchelder, P. M., 624; Bateman, H., 149, 476; Baten, W. D., 342; Bauer, L. A., 477; Beal, W. O. 346; Beale, F. S., 794; Beisel, B. R., 183; Bell, E. T., 605, 791; Bénard, H., 181; Bennett, T., 624; Bernstein, S., 180; Bernstorf, E. E., 792; Berry, A., 44; Berry, A. C., 182, 342, 791; Betz, A., 340; Berwick, W. E. H., 180; Beveridge, H. R., 342; Biggerstaff, J., 43; Bindoni, A., 43; Birkeland, R., 341; Birkhoff, G. D., 149; Blaschke, W., 332; Blichfeldt, H. F., 605, 791; Bliss, G. A., 149; Bloch, E., 181; Bloch, L., 181; Bohr, N., 475, 791; Bompiani, E., 322, 476; Born, M., 181; Borofsky, S., 479; Boutaric, A., 42; Bower, F. O., 340; Bower, O. K., 342; Bragg, W., 181, 340, 623; Brand, F. J., 43; Brandt, H., 624; Brenke, W. C., 149; Bridgman, P. W., 476; Brink, R. W., 604; Brioullin, L., 181; Bristol, W. H., 627; de Broglie, L., 181, 181; de Broglie, M., 41, 181, 182; Bromwich, T. J. I., 44; Brouwer, L. E. J., 181; Brown, A. B., 182, 342, 479; Brown, O. E., 342, 345, 627; Brumbaugh, M. A., 43; Bull, L., 41; Burkett, F. H. J., 342; Bushey, J. H., 477; Butler, L. G., 43.

Cairns, W. D., 605; Cajori, F., 623, 627, 777; Calkins, H., 792; Campbell, A. D., 183; Carlitz, L., 791; Carmichael, R. D., 149, 791; Carr, F. E., 624; Carrelli, A., 340; Carus, M. H., 180; Carver, H. C., 340; Chace, A. B., 41; Chapman, S., 180; Charbonnier, P. J., 181; Chaundy, T. W., 180, 475; Cheney, W. F., 477; Chowla, G. S., 345; Church, A., 477; Churchill, R. V., 342, 624; Clarkson, J. M., 43; Clarkson, R., 623; Coates, W. M., 342; Cobb, C. W., 624; Coble, A. B., 791; Coe, C. J., 342; Cohen, L. W., 182, 792; Coleman, J. B., 342; Compton, K. T., 345, 623, 791; Condon, E. U., 792; Cook, A. J., 342, 624; Cope, T. F., 477; Copson, E. T., 182; Courant, R., 341; Cox, E. F., 43; Craig, C. C., 182, 792; Craig, H. V., 183, 342; Cramer, P., 794; Cummings, L. D., 477; Curry, H. B., 477; Curtis, H. D., 792; Cutler, E. H., 627.

Dalaker, H. H., 604; Dancer, W., 624; Daniell, P. J., 180; Darkow, M. D., 477; Daus, P. H., 604, 624, 791; Davis, H. A., 624; Davis, H. T.,

149, 624; Dean, M. W., 342; Dean, W. R., 342; De Cleene, L. A. V., 342; Déjardin, G., 181; Dempster, A. J., 181; Dickson, L. E., 791; Dines, L. L., 791; Dirac, P. A. M., 341; Dodd, E. L., 791; Donnan, F. G., 41; Doodson, A. T., 475; Doole, H. P., 342; Douglas, J., 42, 182, 477; Downing, H. H., 343; Duren, W. L., 479; Durfee, W. H., 624; Dye, L. A., 479.

Earl, J. M., 43; Eckhart, L., 341; Eddington, A. S., 182, 476, 623; Edington, W. E., 478; Edmonson, N., 343, 792; Edwards, P. D., 343; Einstein, A., 476, 623; Elder, J. D., 343; Emery, E., 181; Engberg, C. C., 44; Engstrom, H. T., 182, 343, 792; Epstein, P. S., 476; Erikson, C. M., 624; Esclangon, E., 182, 341; Eshleman, J. D., 792; Eucken, A., 341; Evans, G. C., 149; Evans, H. P., 343, 624; Exner, F. M., 479.

Falkenhagen, H., 792; Fantappiè, L., 623; Farrell, O. J., 792; Fatou, P., 43; Fayet, G., 181; Fehr, H., 792; Fekete, M., 341; Feltges, E. M., 43; Fermi, E., 341; Ferrar, W. L., 475; Finan, E. J., 479; Fithian, J. H., 625; Flamant, P., 42; Fort, T., 322, 791; Fortescue, C. L., 322; Foster, A. L., 627; Fox, A. H., 43; Frame, J. S., 479; Franck, J., 181; Franklin, P., 623, 625; Frenkel, J., 476; Fricke, R., 794; Fry, T. C., 322, 605, 791; Fues, E., 42; Fuller, G., 479.

Gambier, B., 181; Gándara, A. N., 477; Gay, H. J., 625; Gergen, J. J., 182, 479; Gibbs, J. W., 41; Gibson, G. A., 480; Gill, B. P., 478; Giorgi, G., 342; Glanville, S. R. K., 41; Glover, J. W., 625; Goldsworthy, E. C., 343; Goodier, J. N., 41; Gouwens, C., 625; Grammel, R., 340; Grant, H. S., 627; Graustein, M. C., 627; Graustein, W. C., 625; Gray, M. C., 625; Greenhill, G., 476; Greenstreet, W. J., 794; Griffiths, L. W., 625; Guldberg, A., 180.

Haas, A., 41; Hagen, J. G., 794; Hall, A., 183; Hardy, G. H., 180, 181; Hart, W. L., 791; Hasse, H., 341; Haviland, E. K., 625, 792; Hawkes, H. E., 42; Hawkins, E., 627, 794; Hawks, L. J., 793; Hedlund, G. A., 625; Hedrick, E. R., 605; Heineman, E. R., 793; Heisenberg, W., 791; Hertwig, A., 340; Hickey, D. M., 343; Hilbert, D., 41, 792; Hildebrandt, T. H., 181; Hill, E. L., 478; Hille, E., 625; Hills, E. J., 627; Hilton, H., 180; Hinrichsen, J. J. L., 343, 625; Hobbs, A. W., 793; Holl, D. L., 43; Holland, T., 340; Hollcroft, T. R., 791; Hoover, B. P., 478; Horstmann, A., 43; Hosford, H. M., 625; Huber, C. M., 625; Hughes, J. C., 478; Hume, A., 793; Huntington, E. V., 322, 322, 605, 791; Huntley, H. B., 43; Hurwitz, W. A., 791; Hyde, E., 625.

Ingham, A. E., 477; Ingold, L., 149; Ingraham, M. H., 149, 604.

Jaramillo, T. J., 343; Jeans, J. H., 623; Johnson, J. B., 346; Johnson, M. I., 625, 793; Johnson, R. A., 625; Johnson, R. P., 478; Jonah, H. F. S., 627; Jones, B. W., 182, 625.

van Kampen, E. R., 345; Karelitz, G., 793; von Kármán, T., 341; Keller, E. G., 793; Kellogg, O. D., 149; Kempner, A. J., 791; Kennelly, A. E., 345; de Kerékjárto, B., 42; Ketchum, P. W., 793; Keyser, C. J., 42; Kline, J. R., 149; Klose, 42; Kneser, A., 480; Knobel, E. B., 794; Koehler,

T. L., 479; Kokomoor, F. W., 625; Korn, A., 791; Kotany, L., 480; Krames, F. L., 341; Krigar-Menzel, O., 183; Kusner, J. H., 793.

van Laar, J. J., 41; Ladd-Franklin, C., 346; Lambert, W. D., 182; Lampland, C. O., 623; Landé, A., 793; Landers, A. W., 627; Lane, H. I., 793; Langmuir, I., 42, 340; LaPaz, L., 345; Lebeuf, A., 44; Lehmer, D. H., 792; Lehmer, D. N., 149; Lehr, A. M., 625; Lenzen, V. F., 625; Lerch, F. S., 43; Le Stourgeon, F. E., 793; Levi-Civita, T., 149, 341, 623; Levy, H., 180; Lewis, A. J., 625; Lewis, G. N., 41, 182, 340; Liénard, A., 181; Lindelöf, E. L., 475; Lindsay, R. B., 478; Linehan, P. H., 478; Littauer, S. B., 43, 792; Littlewood, J. E., 41; Logsdon, M. I., 625; Love, A. E. H., 476; Lovell, C. A., 793; Lubin, C. I., 343; Lusk, H. F., 793; Lytle, E. B., 43.

McCain, G. I., 626; McCoard, G. W., 346; McCoy, D., 343, 793; McCoy, N. H., 182, 343, 792; McCrea, W. H., 182; McKinney, T. E., 480; McShane, E. J., 792; MacDuffee, C. C., 626; MacInnes, C. R., 44; MacMahon, P. A., 183; MacMillan, W. D., 623; MacNeish, H. F., 626; MacQueen, M. L., 478; Madelung, G., 182; Mandelbrojt, S., 792; Mangold, M. C., 343; Manning, H. P., 41; Manning, W. A., 791; Marchetti, A., 340; Marden, M., 182, 793; Markley, J. L., 480; Marquis, R. H., 43, 343; Mason, M., 42; Mathews, R. M., 44; Maurain, C., 791; Mears, F. M., 478; Menger, K., 477, 792; Merrill, J. E., 627; Merriaman, G. M., 43; Metzler, W. H., 180; Meyer, H. A., 343; Meyers, S. B., 479; Michal, A. D., 791; Michelson, A. A., 183, 475; Michelson, C., 792; Mickelson, E. L., 43, 343; Miles, E. R. C., 343; Miles, H. J., 343; Mitchell, A. K., 43, 343; Mitchell, H. H., 149; Mode, E. B., 626; Montel, P., 181; Moody, E. I., 627; Moore, C. N., 791; Moore, E. H., 623; Moore, R. L., 149; Moore, T. W., 478; Moore, W. L., 626; Mordell, L. J., 180; Morrey, C. B., 479; Morrill, W. K., 343; Morris, M., 343; Morse, M., 149, 478; Moston, L. T., 479; Mouzon, E. D., 343; Muckenhaup, C. F., 343; Müller, W., 42; Mullins, G. W., 148.

Neelley, J. H., 345; Neville, E. H., 180; Niccoletti, O., 345; Noaillon, P., 181; Nordheim, L. W., 345; Nunn, T. P., 476.

Oakley, C. O., 344, 626; Oglesby, E. J., 478; Olivier, M., 181; Oppenheim, A., 792; Ore, O., 43; Oseen, C. W., 41.

Paley, R. E. A. C., 475; Pall, G., 182, 344, 792; Palme, S., 623; Parkinson, G. A., 344, 478; Pattengill, E. A., 480; Pauthenier, M., 181; Perez, F. D., 344; Perrin, J. B., 42; Persico, E., 341; Peterson, R. E., 346; Peterson, T. S., 479; Petzoldt, J., 794; Phillips, H. B., 626; Phipps, C. G., 626; Phragmen, E., 623; Pistolesi, E., 340; Pixley, H. H., 479; Planck, M., 41, 41, 623, 791; Plaskett, J. S., 623; Poincaré, H., 182; Polly, J. C., 344; Pomini, O., 480; Pompeiu, D., 623; Poole, E. G. C., 475; Pooler, L. G., 479; Porter, W. L., 793; Prandtl, L., 41, 182, 475; Prey, A., 792; Price, G. B., 479; Price, I., 627; Priestman, B., 344; Putnam, T. M., 605.

Rabi, I. I., 478; Rado, T., 345; Rainich, G. Y., 626; Raman, C. V., 341; Ramsey, F. P., 346; Randall, O. E., 183; Rawlins, C. H., 626; Reddick, H. W., 148; Rees, W. A., 43; Reid, W. T., 182, 344, 792; Reilly,

J. F., 626; Rice, L. H., 478; Richardson, O. W., 41; Richardson, R. G. D., 149, 605; Rietz, H. L., 604; Risselman, W. C., 793; Ritt, J. F., 149; Roberts, J. H., 182, 344, 478; Robinson, P. G., 793; Robinson, R., 344; Roe, E. D., 183; Roessler, E. B., 344; Rojansky, V., 793; Rosati, C., 44; Rosinger, K. E., 43; Roussel, A., 181; Rückle, G., 44; Ruger, H. A., 626; Rupp, C. A., 626; Rutherford, E., 181, 182; Rutledge, G., 478; Rutt, N. E., 182, 792.

Saddler, W., 182; Saibel, E., 626; von Sanden, L., 340; Sauté, G., 479; Sayles, H. S., 41; Schatz, H., 42; Schieldrop, E. B., 341; Schoch, C., 346; Schouten, J. A., 477; Schur, A., 794; See, T. J. J., 345; Semple, J. G., 792; Sergescu, P., 623; Serini, R., 341; Severi, F., 475; Sheffer, H. M., 626; Shohat, J. A., 42, 626; Shugert, S. P., 626; Shuster, C. N., 479; Sierpinski, W., 340; Silberfarb, S., 344; Skolem, T., 792; Slater, J. C., 793; Slipher, V. M., 623; Slotnick, M. M., 43; Smart, W. M., 624; Smiley, C. H., 479; Smith, A. J., 794; Smith, C. D., 626; Smith, C. E., 793; Smith, D. E., 42; Smith, F. E., 340; Smith, R. G., 626; Smith, S. E., 44; Snyder, V., 791; Sokolnikoff, I. S., 479; Sommerfeld, A., 791; Southwell, R. V., 42; Sparks, F. W., 794; Sperry, E. A., 627; Spicer, C. A., 43, 344; Srivastava, P. L., 341; Starke, E. B., 626; Steinhaus, H., 41; Sternberg, W., 182; Story, W. E., 480; Stouffer, E. B., 604, 791; Straneo, P., 340; Strom, C. W., 626; Struik, D. J., 623, 626, 791; Study, E., 183; Summers, I. H., 794; Swinford, L. H., 344; Swingle, P. M., 344; Synge, J. L., 627.

Tamarkin, J. D., 791; Taylor, E. H., 479; Taylor, J. M., 627; Taylor, M. E., 794; Thielman, H. P., 479; Thomas, J. M., 794; Thomas, L. H., 794; Thompson, E. L., 794; Thomson, G. P., 624; Thornton, R. A., 627; Thurston, H. S., 794; Timoshenko, S., 322, 476; Tinner, J. C., 43; Todd, J. A., 475; Tonolo, A., 342; Touton, F. C., 627; Trjitzinsky, W. J., 792; Trivedi, T. P., 44; Turner, H. H., 794; Tyler, E., 791; Tyler, H. W., 345; Tzitzéica, G., 623.

Vahlen, T., 477; Vandiver, H. S., 477, 791; Van Horn, C. E., 794; VanSchaak, G. B., 479; Vasiliev, A. V., 183; Veatch, R. W., 479; Vebben, O., 476; Véronnet, A., 181; Vitali, G., 623; Volk, O., 477.

Wahlin, G. E., 791; Wall, H. S., 627; Walsh, J. L., 479; Wang, S. C., 344; Ward, M., 627; Wataghin, G., 340; Watson, G. N., 180; Weaver, W., 322, 791; Webb, J. H., 344; Wedderburn, J. H. M., 149, 791; Weeks, D. W., 479; Weeks, R. W., 480; Weida, F. M., 627; Weiss, M. J., 182, 627; Western, A. E., 180; Westfall, W. D. A., 149; Wexler, C., 794; Weyl, H., 792; Wheeler, C. A., 345; Whelan, R. A., 344; White, F. P., 180; Whitman, E. A., 479; Whitney, H., 479; Whyburn, G. T., 791, 794; Whyburn, W. M., 627, 791; Widder, D. V., 479; Wieleitner, H., 792; Wiener, N., 322, 791; Wilder, R. L., 791; Willcox, W. F., 624; Williams, F. G., 344; Williams, F. H. M., 627; Wilson, E. B., 42, 604; Wilson, W. A., 791; Wintner, A., 345; Witmer, E. E., 794; Wong, B. C., 627, 791; Woods, F. S., 345; Wyant, K., 344, 794.

Yanagihara, K., 624; Yerushalmi, J., 792; Yost, D. M., 794; Young, J. W., 605; Young, L. C., 475; Young, M. M., 479.
Zeeman, P., 791; Zehring, W. A., 627; Zippin, L., 344.

Prizes and Medals:

Accademia Pontificia dei Nuovi Lincei, Quantum Theory Prize, 340; American Academy of Arts and Sciences, Rumford Premium, 623; American Association for the Advancement of Science, 181; American Chemical Society, Chicago Section, Gibbs Medal, 340; American Mathematical Society, 3, 149; Amsterdam Academy, Rozzeboom Medal, 41; Bologna Academy, Merlani Prize, 475; British Institution of Electrical Engineers, Faraday Medal, 181; Cambridge University, Winbolt Prize, 41, Smith's Prizes, 475, Rayleigh Prizes, 475; Franklin Institute, 340; Guggenheim Medal for Aeronautics, 475; Italian Society of Sciences, 623; Königsberger Gelehrte Gesellschaft, 791; Laserre Foundation, 181; London Physical Society, Duddell Medal, 475; Mathematical Association of America, Chauvenet Prize, 181; New York Academy of Sciences, Morrison Prize, 475; Nobel, 41, 181; Paris Academy, 181; Planck, 791; Reale Accademia Petrarca di Lettere, Scienze ed Arti, 475; Royal Society of Edinburgh, James Scott Prize, 475; Royal Society of London, Davy Medal, 41, Copley Medal, 41, Royal Medal, 41; Society of Arts, Gray Navigation Prize, 475; Society of Arts and Sciences, 340; Turin Academy, Vallauri Prize, 340; Verein Deutscher Ingenieure, Grashof Medal, 41.

Universities and Technical Schools:

Cambridge, 41, 475, 475; Chicago, 623; Göttingen, 341; Harvard, 180; Yale, 41.