

ADDITIONS TO THE LIBRARY OF THE CHEMICAL
SOCIETY DURING THE YEAR 1930.

ABDERHALDEN, EMIL. [Editor.] Handbuch der biologischen Arbeitsmethoden. Abt. I. Chemische Methoden. Teil 2, II Hälfte, Hefte v and vii. Berlin 1930.

ABEGG, RICHARD. See DEUTSCHE BUNSEN GESELLSCHAFT.

ABRAHAM, HERBERT. Asphalts and allied substances: their occurrence, modes of production, uses in the arts and methods of testing. 3rd edition. New York 1929. pp. xviii + 891. ill.

ACTA MEDICINALIA IN KEIJO. See KEIJO IMPERIAL UNIVERSITY.

ACTA UNIVERSITATIS VORONEGIENSIS. Vol. II, etc. Voroneff 1925 +. (*Reference.*)

ADAM, NEIL KENSINGTON. The physics and chemistry of surfaces. Oxford 1930. pp. x + 332. ill.

AERONAUTICAL RESEARCH COMMITTEE. Reports and Memoranda. No. 1244. The influence of oxygen on corrosion fatigue. By A. M. BINNIE. London 1929. pp. 3. ill.

— — — No. 1253. Report on some properties of alloys of aluminium with thorium and silicon. By J. D. GROGAN and T. H. SCHOFIELD. London 1929. pp. 12. ill.

— — — No. 1266. Experiments on flame extinction in gaseous mixtures. By W. HELMORE. London 1930. pp. 17. ill.

ALEXANDER, LYLE T. See UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 170.

ALPHEN, JAN VAN. Inwerking van keteenen op hydrazine-derivaten. Leiden 1924. pp. xii + 96.

ANDRESEN, M. [and others]. Erzeugung und Prüfung lichtempfindlicher Schichten. Lichtquellen. (Handb. wiss. angew. Photographie. Vol. IV.). Wien 1930. pp. viii + 344. ill.

ANSCHÜTZ, RICHARD. August Kekulé. 2 vols. Berlin 1929. pp. xxiv + 708, xvi + 960. ill

ARNDT, KURT. Technische Elektrochemie. Stuttgart 1929. pp. xvi + 708. ill.

ASCHAN, OSSIAN. Naphtenverbindungen, Terpene und Campherarten inkl. Pinusharzsäuren sowie Körper der Kautschukgruppe. Berlin 1929. pp. xvi + 378.

AUDEN, HAROLD ALDEN. Sulphuric acid and its manufacture. London 1930. pp. viii + 231. ill.

AUERBACH, FRIEDRICH. See DEUTSCHE BUNSEN GESELLSCHAFT.

AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research*. Bulletin No. 44. Investigations on "spotted wilt" of tomatoes. By GEOFFREY SAMUEL, J. G. BALD, and H. A. PITTMAN. Melbourne 1930. pp. 64. ill.

— — Bulletin No. 45. A soil survey of the Woorinen settlement, Swan Hill irrigation district, Victoria. By J. K. TAYLOR and F. PENMAN. Melbourne 1930. pp. 41. ill.

— — Pamphlet No. 14. The work of the Division of Economic Botany for the year 1928-29. By B. T. DICKSON. Melbourne 1929. pp. 29.

— — Pamphlet No. 15. The work of the Division of Economic Entomology for the year 1928-29. By ROBIN JOHN TILLYARD. Melbourne 1929. pp. 19.

— — Pamphlet No. 16. The work of the Division of Animal Nutrition for the year 1928-29. By THORBURN BRAILSFORD ROBERTSON. Melbourne 1929. pp. 30.

— — Pamphlet No. 17. The mineral content of pastures. Melbourne 1930. pp. 29. ill.

— *Department of Defence*. Munitions Supply Board. Knocking in internal combustion engines and the use of anti-knock fuels. By ALFRED ERNEST DAWKINS. Melbourne 1929. pp. 35. ill.

BAILEY, KENNETH CLAUDE. See PLINIUS, CAIUS SECUNDUS.

BAKER, JOHN WILLIAM. Direction of addition of hydrogen bromide to α -methylene-glutaric acid. (From the *Proc. Leeds Phil. Soc.*, 1930, 2.)

BALCKE, HANS. Die neuzeitliche Speisewasser-Aufbereitung. Leipzig 1930. pp. viii + 138. ill.

BALD, J. G. See AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research*.

BARCHUSEN, JOHANN CONRAD. *Elementa Chemiæ, quibus sub-juncta est Confectura Lapidis Philosophici*. Lugduni Batavorum 1718. pp. [xii] + 532 + [19]. ill. (*Reference*.)

BARGER, GEORGE. Some applications of organic chemistry to biology and medicine. New York 1930. pp. viii + 186. ill.

BARKER, J. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Food Investigation*.

BARKER, THOMAS VIPOND. The study of crystals: a general introduction. London 1930. pp. xvi + 137. ill.

BARNARD, GEORGE P. The selenium cell, its properties and applications. London 1930. pp. xxx + 331. ill.

BATAVIA. *Proefstation voor Rubber*. Mededeelingen. No. 57. Enquete over de vulcanisatie-eigenschappen van de ondernemingsrubber in Java en Zuid-Sumatra. By R. RIEBL. Batavia 1930. pp. 28. ill. [In Dutch. English summary.]

BATES, H. T. See NORRIS, DOROTHY.

BAUDET, HENRI PHILIPPE. Vervangbaarheid van het halogeenaatoom in 1-chloor- en 1-broom-2-cyaan-4-nitrobenzol. Leiden 1922. pp. 75.

BAUSOR, HAROLD WILLIAM. See BRIGGS, WILLIAM.

BECKETT, H. E. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Building Research*.

BEHRE, ALFRED. Chemische Laboratorien, ihre neuzeitliche Einrichtung und Leitung. Leipzig 1928. pp. x + 113 + 33 plates. ill.

BENOIT, CHARLES. See DERRIEN, EUGÈNE.

BERGER, ERNEST E. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 451.

BERKHOUT, P. J. TEDING VAN. Determination of rest-nitrogen in the blood of inhabitants of the tropics. (From the *Med. Dienst Volksgezondheid Ned.-Indie*, 1930.) ill.

BERMBACH, WILLIBAD. Die Akkumulatoren, ihre Theorie, Herstellung, Behandlung und Verwendung. Berlin 1929. pp. vi + 214. ill.

BERTELSMANN, WILHELM, and SCHUSTER, FRITZ. Einführung in die technische Behandlung gasförmiger Stoffe. Berlin 1930. pp. x + 411. ill.

BERZELIUS, JÖNS JACOB. See SÖDERBAUM, HENRIK GUSTAV.

BESSEY, GEORGE EDWARD. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Building Research*.

BIKERMAN, J. See FREUNDLICH, HERBERT.

BILLITER, JEAN. Die neueren Fortschritte der technischen Elektrolyse. (Ergänzungsband zum I, II, und III Teil der "Technischen Elektrochemie.") Halle (Saale) 1930. pp. viii + 328. ill.

BILTZ, HEINRICH, and BILTZ, WILHELM. Ausführung quantitativer Analysen. Leipzig 1930. pp. xvi + 402. ill.

BILTZ, WILHELM. See BILTZ, HEINRICH.

BINNIE, A. M. See AERONAUTICAL RESEARCH COMMITTEE.

BLUM, WILLIAM, and HOGABOOM, GEORGE B. Principles of electroplating and electroforming (electrotyping). 2nd edition. New York 1930. pp. xvi + 424. ill.

BODANSKY, MEYER. Introduction to physiological chemistry. 2nd edition. New York 1930. pp. x + 542. ill.

BOERHAAVE, HERMANN. See METZGER, HÉLÈNE.

BONE, WILLIAM ARTHUR, NEWITT, DUDLEY MAURICE, and TOWN-
END, DONALD THOMAS ALFRED. Gaseous combustion at high
pressures: being mainly an account of the researches carried out
in the high pressure gas research laboratories of the Imperial College
of Science and Technology, London, together with the equipment
and experimental methods employed. London 1929. pp. xiv +
396.

BORN, MAX, and JORDAN, PASCUAL. Vorlesungen über Atom-
mechanik. Vol. II. Elementare Quantenmechanik. (Struktur
der Materie in Einzeldarstellungen.) Berlin 1930. pp. xii + 434.

BOWEN, ARTHUR RILEY. See NASH, ALFRED WILLIAM.

BOWMAN, HERBERT LISTER. See MIERS, SIR HENRY ALEXANDER.

BRADFORD, CITY OF. Conditioning house. [Regulations. 13th
edition.] Bradford 1930. pp. iv + 80. ill.

BRADY, FRANK LAWRENCE. See SCIENTIFIC AND INDUSTRIAL
RESEARCH. *Building Research*.

BRAHMACHARI, UPENDRA NATH, and GUPTA, JNANENDRA MOHAN
DAS. A contribution to the chemistry of certain new aromatic
antimonials. (From the *J. Proc. Asiatic Soc. Bengal*, 1929, 25.)

BRIGGS, DENNIS BROOK. The study of crystals. London 1930.
pp. 137. ill.

BRIGGS, WILLIAM, and BAUSOR, HAROLD WILLIAM. Elementary
quantitative analysis. 2nd edition. Revised by DOUGLAS ROSE-
BERY SNELGROVE. London 1930. pp. viii + 125. ill.

BRIGGS, WILLIAM, and STEWART, ROBERT WALLACE. Qualitative
analysis. 2nd edition. Revised by DOUGLAS ROSEBERY SNEL-
GROVE. London 1930. pp. xii + 171. ill.

BRISSON, [MATHURIN JACQUES]. Dictionnaire raisonné de
physique. 3 vols. Paris 1781. pp. xvi + 708, iv + 770, vi + 90
plates. (*Reference*.)

— Observations sur les nouvelles découvertes aërostatiques, et
sur la probabilité de pouvoir diriger les ballons. Paris 1784. pp.
ii + 34. (*Reference*.) [Bound as supplement to "Dictionnaire
raisonné de physique," Vol. 2.]

BRITISH CAST IRON RESEARCH ASSOCIATION. Research Report
No. 72. Recommended methods for sampling and analysis of
foundry materials. Birmingham 1929. pp. 16.

BRITISH PHOTOGRAPHIC RESEARCH ASSOCIATION. Reports for the
years 1927-29. London [1928-29].

BROSE, HENRY L. See SOMMERFELD, ARNOLD.

BROWN, GEORGE EDWARD. See CLERC, L. P.

BROWNE, CHARLES A. See UNITED STATES. *Department of*
Agriculture. Technical Bulletin No. 141.

BRÜCKNER, HORST. Katalytische Reaktionen in der organisch-chemischen Industrie. I. Dresden 1930. pp. viii + 168. ill.

BRUHAT, GEORGES. Traité de polarimétrie. Paris 1930. pp. xvi + 447. ill.

BRUINING, WIEBRANDUS JAN. Ketazine-, phenylhydrazon- en semicarbazonvorming van in de kern gesubstitueerde acetophenonen. Leiden 1922. pp. x + 69.

BRUNNER, ALBERT. Analyse der Azofarbstoffe. Berlin 1929. pp. vi + 124. ill.

BRUNOLD, CHARLES. L'entropie : son rôle dans le développement historique de la thermodynamique. Paris 1930. pp. vi + 221.

— Le problème de l'affinité chimique et l'atomistique. Paris 1930. pp. vi + 118.

BUNT, CORNELIS VAN DE. Trichloor- en tetrabroom-nitro-benzaldehyden hexachloor- en octabroom-indigo. Leiden 1927. pp. xii + 87.

BURN, JOSHUA HAROLD. See MEDICAL RESEARCH COUNCIL. Special Report Series.

BURNETT, W. B. See PINE INSTITUTE OF AMERICA.

BURSTIN, HUGO. Untersuchungsmethoden der Erdölindustrie (Erdöl, Benzin, Paraffin, Schmieröl, Asphalt usw.) Berlin 1930. pp. xii + 300. ill.

BURTON, HAROLD. Mobile anion tautomerism. Part V. γ -Phenyl- α -*p*-dimethylaminophenylallyl alcohol. (Preliminary notice.) (From the *Proc. Leeds Phil. Soc.*, 1930, 2.)

BYWATERS, HUBERT WILLIAM. Modern methods of cocoa and chocolate manufacture. London 1930. pp. xii + 316. ill.

CALVERT, ROBERT. Diatomaceous earth. (American Chemical Society Monograph Series.) New York 1930. pp. 251. ill.

CAMPBELL, NORMAN ROBERT, and RITCHIE, DOROTHY. Photoelectric cells : their properties, use, and applications. London 1929. pp. viii + 209. ill.

CANADA. *National Research Council*. Canadian Journal of Research. Vol. I, etc. Ottawa 1929 +. (*Reference*.)

CANADIAN JOURNAL OF RESEARCH. See CANADA. *National Research Council*.

CARHART, HENRY SMITH. See HULETT, GEORGE AUGUSTUS.

CARLOS, ARTHUR SIDNEY. Feeding stuffs. London 1928. pp. xii + 152. ill.

CAUDRI, JOHAN FERDINAND MAURITS. Over de snelheid der hydrolyse en alcoholyse in mengsels van twee en drie oplosmiddelen. Leiden 1928. pp. xii + 175.

CEMENT AND CEMENT MANUFACTURE. The international cement journal. Vol. III, etc. London 1930 +. (*Reference.*)

CERCHEZ, VASILE TH. Recherches sur l'éther aminomalonique et quelques-uns de ses dérivés. Lyon 1929. pp. 173.

CHACE, E. M. See UNITED STATES. *Department of Agriculture*. Circular No. 98.

CHAMOT, ÉMILE MONNIN, and MASON, CLYDE WALTER. Handbook of chemical microscopy. Vol. I. Principles and use of microscopes and accessories. Physical methods for the study of chemical problems. New York 1930. pp. xiv + 474. ill.

CHAPLET, A. Où en est la chimie industrielle? Paris 1928. pp. viii + 288. ill.

CHEMICAL CATALOG COMPANY. The condensed chemical dictionary. 2nd edition. New York 1930. pp. 550. (*Reference.*)

CHEMICAL ENGINEERING AND CHEMICAL CATALOGUE. 6th edition. Edited by DUDLEY MAURICE NEWITT. London 1930. pp. 394 + lvi. ill. (*Reference.*)

CHIKASHIGE, MASUMI, and UENO, SHÛZÔ. A new coinage metal: forgery detectable without analysis. (World Eng. Congress, Tokyo 1929). pp. 2. ill.

CHURCH, C. G. See UNITED STATES. *Department of Agriculture*. Circular No. 98.

CLARKE, L. D. See UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 169.

CLERC, L. P. Photography, theory and practice: being an English edition of "La technique photographique." Edited by GEORGE EDWARD BROWN. London 1930. pp. xvi + 566. ill.

CODD, L. W. See HAAS, ARTHUR.

COFMAN, VICTOR. Les colloïdes traités au point de vue de la biophysique et de la thermodynamique. Nancy 1929. pp. 87.

COFMAN-NICORESTI, [JULES]. Contribution a l'étude des désinfectants et du mécanisme des antiseptiques. (From the *Bull. Biol. Pharm.*, 1929, 4.)

COGHILL, W. H. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 456.

COHEN, BARNETT, and PHILLIPS, MAX. Studies on oxidation-reduction. XV. Potentiometric studies of the amino indophenols: phenol blue, *m*-toluylene diamine indophenol, and *o*-toluidine indophenol. (*U.S. Public Health Reports*, 1929, Supplement No. 74.)

COLEBROOK, LEONARD. See MEDICAL RESEARCH COUNCIL. Special Report Series.

COLLOID SYMPOSIUM ANNUAL. (Formerly Colloid Symposium Monograph.) Papers presented at the 7th Symposium on Colloid

Chemistry, Johns Hopkins University, June 1929. New York 1930. pp. viii + 300. ill.

COMBS, WILLES BARNES. *See* ECKLES, CLARENCE HENRY.

CONN, H. J. Biological stains. 2nd edition. Enlarged and revised with the assistance of W. C. HOLMES and R. W. FRENCH. Geneva, N.Y. 1929. pp. 224. ill.

CONNECTICUT AGRICULTURAL EXPERIMENT STATION. Bulletin 312. Thomas B. Osborne. A memorial. New Haven 1930. pp. [vi + 114]. ill.

CONSTABLE, FREDERICK HURN. A condensed outline of modern physical chemistry. London 1930. pp. 157.

COPEMAN, P. D. v.d. R. *See* SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry, Series No. 96.)

CORSE, W. M. Bearing metals and bearings. (American Chemical Society Monograph Series.) New York 1930. pp. 383. ill.

COSTA, NORBERTO P. Algunas observaciones relativas a la constitución de cementos. (From the *An. Soc. Científica Argentina*, 1930, 109.) ill.

COTTON, R. T. *See* UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 162.

CRAVERI, CALISTO. Les essences naturelles: extraction-caractères-emplois. Translated by HENRI TATU. Paris 1929. pp. xii + 602. ill.

CRISTOL, PAUL. *See* DERRIEN, EUGÈNE.

CRONSHAW, HARRY BRENNAN. *See* RUBBER INFORMATION.

CUMMING, ALEXANDER CHARLES. *See* LUNGE, GEORGE.

CURTIS, C. A. Artificial pigments and their applications. Translated by ERNEST FYLEMAN. London 1930. pp. viii + 291.

CUTLER, J. V. *See* SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry Series, No. 99.)

DALE, HENRY HALLETT. *See* MEDICAL RESEARCH COUNCIL. Special Report Series.

DANIELS, FARRINGTON, MATHEWS, JOSEPH HOWARD, and WILLIAMS, JOHN WARREN. Experimental physical chemistry. New York 1929. pp. xvi + 475. ill.

DAVEY, NORMAN. *See* SCIENTIFIC AND INDUSTRIAL RESEARCH. *Building Research*.

DAVIDSOHN, ISSER. Lehrbuch der Seifenfabrikation. Berlin 1928. pp. xxiv + 731. ill.

DAVIES, CECIL WHITFIELD. The conductivity of solutions and the modern dissociation theory. London 1930. pp. viii + 204. ill.

DAVIES, JAMES. Newfoundland cod liver oil. St. John's 1930. pp. 30. ill.

DAVIS, JOSEPH D. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 409.

DAVY, SIR HUMPHRY. See GREGORY, JOSHUA CRAVEN.

DAWKINS, ALFRED ERNEST. See AUSTRALIA, COMMONWEALTH OF. *Department of Defence*.

DEAN, WALTER A. The nickel iron chromium system. (*Rensselaer Polytechnic Inst., Eng. Sci. Series*, No. 26.) 1930.

DEBYE, PETER. [Editor.] Dipolmoment und chemische Struktur. Leipzig 1929. pp. viii + 134. ill.

DELANGE, RAYMOND. Essences naturelles et parfums. Paris 1930. pp. 222.

DEMÉNY, LÁSZLÓ. Aryl-sulfo-alkylamiden. Leiden 1928. pp. xii + 135.

DEMING, HORACE G. In the realm of carbon. The story of organic chemistry. New York 1930. pp. x + 365. ill.

DENHAM, HENRY GEORGE. An inorganic chemistry. 2nd edition. London 1930. pp. viii + 688. ill.

DENNING, ARTHUR DU PRÉ. Ueber die Viskosität und die magnetische Doppelbrechung des colloidalen Eisenoxyhydrates. Heidelberg 1904. pp. 38. ill.

DENNIS, LOUIS MONROE, and NICHOLS, MELVIN L. Gas analysis. Revised edition. New York 1929. pp. xx + 499. ill.

DERRIEN, EUGÈNE. Zinc, porphyrines et cancer. (From the *Arch. Soc. Sci. Med. Biol. Montpellier*, 1929-30, 11.)

DERRIEN, EUGÈNE, and BENOIT, CHARLES. Porphyrines des calculs salivaires. (From the *Arch. Soc. Sci. Med. Montpellier*, 1929.)

— — Notes et observations sur les urines et sur quelques organes d'une femme morte en crise de porphyrie aiguë. (From the *Arch. Soc. Sci. Med. Montpellier*, 1929.)

DERRIEN, EUGÈNE, and CRISTOL, PAUL. Zincoporphyrinurie. (From the *Arch. Soc. Sci. Med. Biol. Montpellier*, 1929-30, 11.)

DESBLEDS, L. BLIN. Exact colour matching and specifying. Paris [n.d.]. pp. 116. ill.

DEUTSCHE BUNSEN GESELLSCHAFT. Messungen elektromotorische Kräfte galvanischer Ketten mit wässrigen Elektrolyten. Edited by RICHARD ABEGG, FRIEDRICH AUERBACH, and ROBERT LUTHER. Halle (Saale) 1911. pp. xii + 213.

— — Ergänzungsheft I. Edited by FRIEDRICH AUERBACH. Halle (Saale) 1915. pp. xii + 60.

— — Ergänzungsheft II. Edited by CARL DRUCKER. Berlin 1929. pp. x + 234.

DEWS, HERBERT CLIFFORD. The metallurgy of bronze. London 1930. pp. x + 147. ill.

DICKSON, B. T. *See* AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research.*

DIENSKE, JOANNES WILHELMUS. *Constitutiebepaling door verdringing van groepen uit de benzolkern.* Leiden 1929. pp. xii + 125.

DIETERICH, KARL. *Analyse der Harze, Balsame und Gummiharze.* 2nd edition. By ERICH STOCK. Berlin 1930. pp. x + 456. ill.

DIKSHOORN, RUDOLPH PIETER. *Over enkele chinolinederivaten.* Leiden 1928. pp. xii + 131.

DRUCKER, CARL. *See* DEUTSCHE BUNSEN GESELLSCHAFT.

— *See* HANDBUCH DER ALLGEMEINEN CHEMIE.

DUBSKÝ, J. V., and KURAŠ, M. *Contribution à l'étude analytique des réactions des oximes.* (*Publ. Fac. Sci. Univ. Masaryk*, 1929, No. 114.) [In Czecho-Slovakian. French summary.]

DUBSKÝ, J. V., and RABAS, A. *Contribution à l'étude des composés d'addition des bases organiques avec les sels des métaux lourds.* (*Publ. Fac. Sci. Univ. Masaryk*, 1929, No. 112.) [In Czecho-Slovakian. French summary.]

DUPONT, G. *Les essences de térébenthine.* Paris 1926. pp. 332. ill.

DURRANS, THOMAS HAROLD. *Solvents.* (Monographs on Applied Chemistry.) London 1930. pp. xvi + 144.

DURVELLE, J. P. *Fabrication des essences et des parfums. Chimie des parfums.* 3rd edition. Paris 1930. pp. viii + 808. ill.

ECKLES, CLARENCE HENRY, COMBS, WILLES BARNES, and MACY, HAROLD. *Milk and milk products.* New York 1929. pp. xii + 379. ill.

EDDY, GLADYS E. *See* SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research.*

EDER, JOSEF MARIA. *Ausführliches Handbuch der Photographie.* Vol. III. Part i. *Die Fabrikation der photographischen Platten, Filme und Papiere und ihrer maschinelle Verarbeitung.* 6th edition. By FRITZ WENTZEL. Halle (Saale) 1930. pp. xx + 595. ill.

— — Vol. III. Part iv. *Die Sensitometrie, photographische Photometrie und Spektrographie.* 3rd edition. Halle (Saale) 1930. pp. xvi + 612. ill.

EDGCOMBE, L. J. *See* SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research.*

EDWARDS, JUNIUS DAVID, FRARY, FRANCIS C., and JEFFRIES, ZAY. *The aluminium industry.* 2 vols. (Chemical Engineering Series). New York 1930. pp. xviii + 870, xii + 358. ill.

EDWARDS, W. J. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

ELION, LEONARD. Vorming van nevenproducten bij de diazoteering volgens de methode van Witt. Leiden 1922. pp. x + 83.

ELLIS, OLIVER COLIGNY DE CHAMPFLEUR. Flame movements in gaseous mixtures. (From *Fuel*, 1928, 7.)

ELVOVE, ELIAS. See SMITH, MAURICE I.

EMPIRE MARKETING BOARD. May 1929 to May 1930, etc. London 1930 +.

ÉTUDES CHIMIQUES sous forme de dictionnaire. MS. 2 vols. [n.d.] pp. [234, 255.] ill. (*Reference*.)

ÉTUDES MÉTALLURGIQUES. MS. [n.d.] pp. 87. (*Reference*.)

EUCKEN, ARNOLD. Lehrbuch der chemischen Physik. Being the 3rd edition of Grundriss der physikalischen Chemie. Leipzig 1930. pp. xvi + 1037. ill.

EULER, HANS VON. Biokatalysatoren. (Sammlung, New Series, Vol. I.) Stuttgart 1930. pp. 68. (*Reference*.)

EVANS, CHARLES [ARTHUR] LOVATT. Recent advances in physiology. 4th edition. London 1930. pp. xii + 446. ill.

EVANS, MARJORIE M. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

EVANS, W. P. The changes produced by oxidation in the pitted tracheids of certain New Zealand forest trees and their significance in the study of coals. (From the *Trans. N.Z. Inst.*, 1929, 60.)

— Microstructure of New Zealand lignites. (From the *New Zealand J. Sci. Tech.*, 1930, 11.) ill.

EYNON, LEWIS. See INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND.

FAIRCHILD, C. O. See UNITED STATES. *Department of Commerce*. Bureau of Standards. Technologic Paper No. 170.

FARMER, ROBERT CROSBIE. Über sogenannte Oxyazokörper sowie Chinonoxime und Ketoxime. Würzburg 1899. pp. 71.

FERCHL, FRITZ. Von Libau bis Liebig. Chemikerköpfe und Laboratorien. Mittenwald (Bayern) [1930]. pp. [94]. ill.

FINCKE, HEINRICH. Die Kakaobutter und ihre Verfälschungen. Stuttgart 1929. pp. 238.

FINDLAY, ALEXANDER. The spirit of chemistry: an introduction to chemistry for students of the liberal arts. London 1930. pp. xvi + 480. ill.

FINDLAY, GEORGE MARSHALL. Recent advances in chemotherapy. London 1930. pp. viii + 532. ill.

FLEXNER, LOUIS B. See MICHAELIS, LEONOR.

FOAN, GILBERT A. See REDGRAVE, HERBERT STANLEY.

Fontein, Cornelia Christina Johanna. Intramoleculaire omzettingssnelheden bij aryl-acylhaloogenaminen. Leiden 1927. pp. xii + 111.

FOOTE, PAUL D. See UNITED STATES. *Department of Commerce*. Bureau of Standards. Technologic Paper No. 170.

FORTSCHRITTE DER CHEMIE, PHYSIK UND PHYSIKALISCHEN CHEMIE. Neue Folge des Physikalisch-chemischen Centralblattes. Vols. I-VI. Leipzig 1909-13. (*Reference*.)

— Generalregister. Vols. I-V. (1909-12). Leipzig 1912. (*Reference*.)

FRANCIS, WILFRID. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 446.

FRARY, FRANCIS C. See EDWARDS, JUNIUS DAVID.

FRÉCHET, M., and ROMANN, R. Représentation des lois empiriques par des formules approchées à l'usage des chimistes, des physiciens, des ingénieurs et des statisticiens. Paris 1930. pp. viii + 302.

FREEMAN, BENJAMIN, and HOPPE, FREDERICK G. Electroplating with chromium, copper, and nickel. New York 1930. pp. x + 212 ill.

FRENCH, R. W. See CONN, H. J.

FREUNDLICH, HERBERT. Kapillarchemie. 4th edition. In collaboration with J. BIKERMAN. Vol. I. Leipzig 1930. pp. viii + 566. ill.

FREY, L. See GEDROIZ, K. K.

FREY, R. W. See UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 169.

FRIEND, JOHN NEWTON. A text-book of inorganic chemistry. Vol. XI. Organometallic compounds. Part ii. Derivatives of arsenic. By ARCHIBALD EDWIN GODDARD. London 1930. pp. xxviii + 605. (Two copies.)

FRIMAUDEAU, S. La soudure électrique a l'arc métallique. Paris [1924]. pp. vi + 135. ill.

FRTZ, FELIX. Sechzig Jahre Linoleumfabrikation. (From *Seifenseider Zeitung*, 1924.) pp. 98. ill.

FRÖLICH, GUSTAV, SPÖTTEL, WALTER, and TÄNZER, ERNST. Wollkunde. Bildung und Eigenschaften der Wolle. Berlin 1929. pp. x + 419. ill.

FULMER, ELLIS I., and WERKMAN, C. H. An index to the chemical action of microorganisms on the non-nitrogenous organic compounds. [Springfield, Ill.] 1930. pp. xiv + 198. (*Reference*.)

FYLEMAN, ERNEST. See CURTIS, C. A.

— See PREGL, FRITZ.

GABB, GEORGE HUGH. See TATE, FRANCIS GEORGE HENRY.

GALLOWAY, L. D. See THAYSEN, AAGE CHRISTIAN.

GARCÍA-BLANCO, J. Microdeterminación directa del agua en tejidos conectivos. (From the *Arq. Seminario Est. Galegos*, 1929.)

— Sobre la regulación hormonal de la economía hidrica en el tejido celular subcutáneo. (From the *Arq. Seminario Est. Galegos*, 1929.)

GATTERMANN, LUDWIG. Die Praxis des organischen Chemikers. 22nd edition. By HEINRICH WIELAND. Berlin 1930. pp. xii + 409. ill.

GEDROIZ, K. K. Chemische Bodenanalyse. Translated from the Russian by L. FREY. Berlin 1926. pp. xii + 245.

GERLACH, WALTHER, and SCHWEITZER, EUGEN. Die chemische Emissions-Spektralanalyse. Grundlagen und Methoden. Leipzig 1930. pp. vi + 120. ill.

GHOSH, SUDHAMOY. See ROSENTHALER, LEOPOLD.

GLANVILLE, WILLIAM HENRY. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Building Research*.

GLASSTONE, SAMUEL. The electrochemistry of solutions. London 1930. pp. xii + 476. ill.

GODBERT, A. L. See MINES DEPARTMENT. *Safety in Mines Research Board*.

GODDARD, ARCHIBALD EDWIN. See FRIEND, JOHN NEWTON.

GODLEWSKI, EMILE. Oeuvres. Vol. I. (1870–1890.) Edited by LADISLAS VORBRODT. Cracovie 1930. pp. viii + 599. ill.

GÖTZE, KURT. See WELTZIEN, WILHELM.

GOODWIN, HARRY MANLEY, and KALMUS, HERBERT T. On the latent heat of fusion and the specific heat of salts in the solid and liquid state. (From the *Phys. Rev.*, 1909, 28.)

GOODWIN, HARRY MANLEY, and MAILEY, R. D. On the density, electrical conductivity and viscosity of fused salts and their mixtures. (From the *Phys. Rev.*, 1907–8, 25–26.)

GORTNER, ROSS AIKEN. Outlines of biochemistry. The organic chemistry and the physico-chemical reactions of biologically important compounds and systems. New York 1929. pp. xvi + 793. ill.

GOSSELIN, ALBERT, and GOSSELIN, MARCEL. Constitution et thermochimie des molécules. Paris 1930. pp. viii + 231. ill.

GOSSELIN, MARCEL. See GOSSELIN, ALBERT.

GRAAF, HENDRIK DE. Verband tusschen smaak en constitutie van dicarbonzuur-dihydraziden en derivaten. Leiden 1930. pp. xii + 138.

GRAEFE, EDMUND, [and others]. Einführung in die chemische Technologie der Brennstoffe. Dresden 1927. pp. viii + 197. ill.

GRANT, JULIUS. The measurement of hydrogen-ion concentration. London 1930. pp. viii + 159. ill.

GRAY, THOMAS. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

GREEN, H. H. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry Series, No. 98.)

GREGORY, JOSHUA CRAVEN. The scientific achievements of Sir Humphry Davy. London 1930. pp. viii + 144. ill.

GRICE, C. S. W. See MINES DEPARTMENT. *Safety in Mines Research Board*.

GROENEVELD, CORNELIS. Nitratie van naphthyl-1-en-2. amine-derivaten. Leiden 1930. pp. xvi + 180.

GROGAN, J. D. See AERONAUTICAL RESEARCH COMMITTEE.

GRUBE, GEORG. Grundzüge der theoretischen und angewandten Elektrochemie. 2nd edition. Dresden 1930. pp. xii + 495. ill.

GRÜN, ADOLF. Analyse der Fette und Wachse. Vol. II. Berlin 1929. pp. xvi + 806. ill.

GUPTA, JNANENDRA MOHAN DAS. See BRAHMACHARI, UPENDRA NATH.

GWOSDZ, JOSEF. Kohlenwassergas. Entwicklung, Durchführung und Ziele der restlosen Vergasung unserer Brennstoffe auf der Grundlage des Wassergasprozesses. Halle (Saale) 1930. pp. viii + 203. ill.

HAAS, ARTHUR. Materiewellen und Quantenmechanik. 3rd edition. Leipzig 1930. pp. viii + 202. ill.

— Quantum chemistry: a short introduction in four non-mathematical lectures: a short introduction in four non-mathematical lectures. Translated by L. W. CODD. London 1930. pp. x + 177. ill.

HACKH, INGO WALDO DAGOBERG. A chemical dictionary containing the words generally used in chemistry, and many of the terms used in the related sciences. Based on recent chemical literature. [Philadelphia 1929.] pp. viii + 790. ill. (*Reference*.)

HÄGG, GUSTAV. X-ray studies on the binary systems of iron with nitrogen, phosphorus, arsenic, antimony, and bismuth. (From the *Nova Acta Soc. Sci. Upsaliensis*, 1929, [iv], 7.)

HAISSINSKY, M. L'atomistica moderna e la chimica. Milano 1930. pp. xvi + 315. ill.

HALDANE, JOHN BURDON SANDERSON. Enzymes. (Monographs on Biochemistry.) London 1930. pp. viii + 235. ill.

HALDANE, JOHN SCOTT. The theory of heat-engines including the action of muscles. Edinburgh 1930. pp. xvi + 120.

HALL, WILLIAM THOMAS. See TREADWELL, FREDERICK PEARSON.

HANDBUCH DER ALLGEMEINEN CHEMIE. Edited by PAUL

WALDEN and CARL DRUCKER. VIII. Elektromotorische Kräfte, Elektrolyse und Polarisation. By ROBERT KREMANN and ROBERT MULLER. 2 vols. Leipzig 1930. pp. xvi + 891, xii + 835. ill. (*Reference.*)

HANDBUCH DER KAUTSCHUKWISSENSCHAFT. Edited by KARL MEMMLER. Leipzig 1930. pp. xxiv + 766. ill.

HANDBUCH DER KOLLOIDWISSENSCHAFT IN EINZELDARSTELLUNGEN. Edited by WOLFGANG OSTWALD. Vol. IV. Die Globuline. By MONA SPIEGEL-ADOLF. Dresden 1930. pp. xvi + 452. ill.

HARDY, SIR WILLIAM BATE. *See* SCIENTIFIC AND INDUSTRIAL RESEARCH. *Lubrication Research.*

HARRISON, GEOFFREY ARTHUR. Chemical methods in clinical medicine. London 1930. pp. x + 534. ill.

HARRISON, T. R. *See* UNITED STATES. *Department of Commerce.* Bureau of Standards. Technologic Paper No. 170.

HARTFORD, C. E. *See* UNITED STATES. *Department of Commerce.* Bureau of Standards. Miscellaneous Publication No. 108.

HASHIMA, HIDEO. *See* NISHIDA, KITSUJI.

HEERMANN, PAUL. [Editor.] Enzyklopädie der textil-chemischen Technologie. Berlin 1930. pp. x + 970. ill. (*Reference.*)

HELMORE, W. *See* AERONAUTICAL RESEARCH COMMITTEE.

HENRICI, ARTHUR T. Molds, yeasts, and Actinomycetes. New York 1930. pp. x + 296. ill.

HERBIG, W. Die Ole und Fette in der Textilindustrie. 2nd edition. Stuttgart 1929. pp. viii + 451. ill.

HERIOT, THOMAS HAWKINS PERCY. *See* SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research.*

HERSCHEL, WINSLOW H. *See* UNITED STATES. *Department of Commerce.* Bureau of Standards. Technologic Paper No. 112.

HERZ, WALTER. Physikalische Chemie als Grundlage der analytischen Chemie. 3rd edition. In collaboration with L. LORENZ. (Die chemische Analyse, Vol. III.) Stuttgart 1930. pp. viii + 310. ill. (*Reference.*)

HESS, W. C. *See* SULLIVAN, MAX.

HESS, WENDELL FREDERICK. A study of the colour sensitiveness of various types of photo-electric cells. (*Rensselaer Poly. Inst. Eng. Sci. Series*, No. 23.) Troy 1929. pp. 27. ill.

HIRAIDZUMI, TEIKICHI. Studies in menthones. (From the anniversary vol. dedicated to M. Chikashige, 1930.)

HOGABOOM, GEORGE B. *See* BLUM, WILLIAM.

HOLMES, W. C. *See* CONN, H. J.

HOLMYARD, ERIC JOHN. Inorganic chemistry : a text-book for schools and colleges. London [1922]. pp. xii + 560. ill.

— Outlines of organic chemistry. London [1924, reprinted] 1928. pp. xii + 468. ill.

— An elementary chemistry. 2nd edition. London [1927]. pp. viii + 430. ill.

— An introduction to organic chemistry. London 1930. pp. xii + 282. ill.

HOOGEVEEN, ANTONIUS PETRUS JACOBUS. Intramoleculaire omzettingssnelheden van naphthylacetylchloraminen. Leiden 1929. pp. xii + 137.

HOPPE, FREDERICK G. See FREEMAN, BENJAMIN.

HUBBARD, C. C. Drycleaning and redyeing handbook : including laboratory practice, formulas, tests and tables. Silver Spring, Md. 1929. pp. xii + 252.

HULETT, GEORGE AUGUSTUS. Mercurous sulphate and the standard cells. (From the *Phys. Rev.*, 1906, 22.)

— The cadmium standard cell. (From the *Phys. Rev.*, 1906, 23.)

— Mercurous sulphate, cadmium sulphate and the cadmium cell. (From the *Phys. Rev.*, 1907, 25.)

— A standard battery. (From the *Phys. Rev.*, 1908, 27.)

— Equilibria in standard cells. (From the *Phys. Rev.*, 1908, 27.)

— The cathode equilibrium in the Weston standard cell. (From the *Phys. Rev.*, 1910, 30.)

— The construction of standard cells and a constant temperature bath. (From the *Phys. Rev.*, 1911, 32.)

— The distillation of amalgams and the purification of mercury. (From the *Phys. Rev.*, 1911, 33.)

HULETT, GEORGE AUGUSTUS, and CARHART, HENRY SMITH. A study of the materials used in standard cells and their preparation. St. Louis 1904. pp. 19. ill.

HULETT, GEORGE AUGUSTUS, and MINCHIN, HOWARD D. The distillation of amalgams and the purification of mercury. (From the *Phys. Rev.*, 1905, 21.)

HUNTRESS, ERNEST HAMLIN. A brief introduction to the use of Beilstein's Handbuch der organischen Chemie. New York 1930. pp. viii + 35. (*Reference.*)

IMPERIAL COLLEGE CHEMICAL SOCIETY. Journal. Vols. VI-IX. London 1927-30. (*Reference.*)

INDIAN LAC ASSOCIATION FOR RESEARCH. Reports of the Committee and of the Director . . . for the year 1st April 1927 to 31st March 1928, etc. Calcutta 1928 +. (*Reference.*)

INDIAN LAC ASSOCIATION FOR RESEARCH. Bulletin No. 1. Physical properties of shellac solutions. Part I. By M. RANGASWAMI and M. VENUGOPALAN. Calcutta 1928. pp. ii + 14.

— Bulletin No. 2. Physical properties of shellac solutions. Part II. By M. RANGASWAMI and M. VENUGOPALAN. Calcutta 1929. pp. ii + 17. ill.

— A short account of the work of the Indian Lac Research Institute. Ranchi 1930. pp. 23.

INSTITUT DU PIN. Bulletin. Sous le controle de l'Institut des Recherches agronomiques et rattaché à la Faculté des Sciences de Bordeaux. 2nd Series. No. 1, etc. Bordeaux 1930 +. (*Reference.*)

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND. The world's sugar industry. By LEWIS EYNON. London 1929. pp. 20.

INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH. Bulletin. Vol. VII, etc. Tokyo 1928 +. (*Reference.*) [In Japanese.]

— Abstracts from Rikwagaku-Kenkjū-Jo Ihō. (The Bulletin of the Institute of Physical and Chemical Research, Vols. VII & VIII.) Vols. I & II. Tokyo 1928–29. (*Reference.*)

[Then incorporated with Scientific Papers of the Institute of Physical and Chemical Research.]

INSTITUTION OF CHEMICAL ENGINEERS. The training of a chemical engineer. London 1925. pp. 7.

INSTITUTION OF ELECTRICAL ENGINEERS. Journal. Vol. LXVIII, etc. London 1929 +. (*Reference.*)

ISABEY, JEAN. Cours de chimie. Paris 1930. pp. iv + 395. ill.
ISTITUTO BIOCHEMICO ITALIANO. Archivio. Vol. I, etc. Milan 1929 +. (*Reference.*)

JACKSON, L. C. See WILD, A. MARTIN DE.

JAEGER, FRANS MAURITS. I. Spatial arrangements of atomic systems and optical activity. II. Methods, results and problems of precise measurements at high temperatures. III. The construction and structure of ultramarines. New York 1930. pp. x + 450. ill.

JAKEMAN, C. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Lubrication Research.*

JANSEN, MAX PETRUS JOZEF MARIA. Over enkele in de kern gesubstitueerde β -phenylethyl-aminen. Leiden 1930. pp. xvi + 121. ill.

JAPAN. *National Research Council.* Report. No. 1, 1922, etc. Tokyo 1930 +. (*Reference.*)

JEFFRIES, ZAY. See EDWARDS, JUNIUS DAVID.

JOHNSON, CHARLES MORRIS. Rapid methods for the chemical

analysis of special steels, steel-making alloys, their ores, graphites, and bearing metals. 4th edition. New York 1930. pp. xx + 729. ill.

JOINT CHEMICAL COMMITTEE. Memorandum on British patent law reform. [London] 1929. pp. ii + 32.

JONES, G. W. *See* UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 450.

JONES, JOHN HENRY. *See* SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

JORDAN, PASCUAL. *See* BORN, MAX.

JOURNAL OF RHEOLOGY. *See* SOCIETY OF RHEOLOGY.

JOURNAL OF THE CANCER RESEARCH COMMITTEE. *See* SYDNEY, UNIVERSITY OF.

KALMUS, HERBERT T. *See* GOODWIN, HARRY MANLEY.

KAM, EELKO JACOBUS VAN DER. Verwagbaarheid van het halogeenatoom in 2.chloor-en 2.broom-1.6.8.trinitro-naphthaline. Leiden 1926. pp. xii + 112.

KAMERMAN, P. *See* SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry Series, No. 111.)

KAPPEN, HUBERT. Die Bodenazidität. Nach agrikulturchemischen Gesichtspunkten dargestellt. Berlin 1929. pp. viii + 363. ill.

KATERYNOSLAW, CHEMICAL CATHEDAR OF. *See* UKRAINIAN COUNCIL SOCIALIST REPUBLIC.

KATZ, S. H. *See* MINES DEPARTMENT. *Safety in Mines Research Board*.

KAUSCH, OSCAR. Phosphor, Phosphorsäure und Phosphate. Ihre Herstellung und Verwendung. Berlin 1929. pp. vi + 325. ill.

— Der Graphit. Halle (Saale) 1930. pp. viii + 247. ill.

KAWAGOYE, M. *See* SHINODA, J.

KEIJO IMPERIAL UNIVERSITY. Acta Medicinalia in Keijo. Vols. XI and XII. Keijo 1928-29.

Continued as :—

— Keijo Journal of Medicine. Vol. I, etc. Keijo 1930 +. (*Reference*.)

KEIJO JOURNAL OF MEDICINE. *See* KEIJO IMPERIAL UNIVERSITY.

KEKULÉ, AUGUST. *See* ANSCHÜTZ, RICHARD.

KENWOOD, HENRY RICHMOND. *See* PARKES, LOUIS COLTMAN.

KERKHOFF, JACOBUS GERARDUS. Verdringing van atomen en groepen uit de naphthalinekeren. Leiden 1930. pp. xvi + 204.

KERR, HAROLD. *See* PARKES, LOUIS COLTMAN.

KIND, W. [and others]. Der Flachs. Part I. Berlin 1930. pp. x + 427. ill.

KING, JAMES GRIEVE. *See* SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

KIRCHNER, JULIUS. Die Sodafabrikation nach dem Solvay-Verfahren. Leipzig 1930. pp. xii + 123. ill.

KITAGAWA, MATSUNOSUKE, and TOMIYAMA, TETSUO. A new amino-compound in the Jack bean and a corresponding new ferment. (I). (From the *J. Biochem. Japan*, 1929, **11**.) ill.

KLENK, ERNST. See THIERFELDER, HANS.

KLOOSTER, HENRY S. VAN. See KRUYT, HUGO RUDOLF.

KNIPHORST, LAMBERTUS CASPER EVERHARD. Nitratie van symmetrische aryl-alkyl-urea. Leiden 1923. pp. xii + 116.

KOMATSU, SHIGERU [and others]. Biochemical studies on the bamboo. I-VII. (From the anniversary vol. dedicated to M. Chikashige, 1930.)

KOSAKA, HIROSI. Die Beziehungen zwischen den verschiedenen physiologischen Erscheinungen der Pflanzen und den an verschiedenen Vegetationsorganen in Erscheinung tretenden Farbstoffen. I. Ueber die Beziehungen zwischen der Anthozyanbildung und dem Wachstum von *Abutilon avicennae*. (From the *J. Dept. Agric. Kyushu Imp. Univ.*, 1929, **2**.)

KOSTING, PETER R. The nickel iron copper system. (*Rensselaer Polytechnic Inst., Eng. Sci. Series*, No. 26.) 1930.

KRAFFT, CARL F. Spirazines: a type of chemical structure bearing upon the constitution of proteins and the cause of life. Washington 1930. pp. 54. ill.

KREMANN, ROBERT. See HANDBUCH DER ALLGEMEINEN CHEMIE.

KRONIG, R. DE L. Band spectra and molecular structure. Cambridge 1930. pp. x + 163. ill.

KRUYT, HUGO RUDOLPH. Colloids: a textbook. Translated by HENRY S. VAN KLOOSTER. 2nd edition. New York 1930. pp. xiv + 286. ill.

KUNO, YUFU. Critical study on the enzymic decomposition of nicotine. (From the *Bul. Sci. Fak. Terkult. Kjûsu*, 1929, **3**.) [In Japanese. English summary.]

KURAŠ, M. See DUBSKÝ, J. V.

LANGE, MARIE PIETER DE. Verdringing van atomen en groepen uit de benzolkern. Leiden 1922. pp. xii + 109.

LATVIJAS ŪNIVERSITĀTES RAKSTI. Kimijas Fakultātes Serija. Vol. I, etc. Riga 1929 +. (*Reference*.)

LEE, JOHANNES VAN DER. Nitratie van kaneelzuurderivaten. Leiden 1925. pp. xii + 96.

LEFFMANN, HENRY, and PINES, CHARLES C. Further notes on tests for acetone and aldehyde. (From the *Bull. Wagner Free Inst. Sci. Philadelphia*, 1929, **4**.)

Preliminary note on some studies of the photosensitive-

ness of nitroprussids. (From the *Bull. Wagner Free Inst. Sci. Philadelphia*, 1929, 4.)

LEFFMANN, HENRY, and PINES, CHARLES C. Notes on the tests for isopropanol. (From the *Bull. Wagner Free Inst. Sci. Philadelphia*, 1929, 4.)

LEHMANN, ADOLF [LUDWIG FERDINAND]. Das Diphenyl-dibenzoyl-crotonylen und einige seiner Reduktionsprodukte. Leipzig 1897. pp. 39.

LEWIS, GILBERT NEWTON. Outlines of a new system of thermodynamic chemistry. (From the *Proc. American Acad. Arts Sci.*, 1907, 43.)

LING, EDGAR ROBERTS. A text-book of dairy chemistry, theoretical and practical, for students of agriculture and dairying. London 1930. pp. viii + 213. ill.

LIPPMANN, EDMUND OSKAR VON. Die Geschichte des Wismuts zwischen 1400 und 1800. Berlin 1930. pp. 42.

LLOYD, JOHN ALEXANDER. Nitraniline und Nitrosoaniline als Pseudobasen. Würzburg 1903. pp. 67.

LORANG, HERMANUS FRANS JOSEPH. Nitratie van a.4.methoxy-(ethoxy)phenyl-b.ethylureum. Leiden 1927. pp. xii + 99.

LORENZ, L. See HERZ, WALTER.

LUNGE, GEORGE. Technical chemists' handbook. 3rd edition. Revised by ALEXANDER CHARLES CUMMING. London 1929. pp. xvi + 262.

LUTHER, ROBERT. See DEUTSCHE BUNSEN GESELLSCHAFT.

MCCOLLUM, ELMER VERNER, and SIMMONDS, NINA. The newer knowledge of nutrition. 4th edition. New York 1929. pp. xiv + 594. ill.

MACLEOD, JOHN JAMES RICKARD, [and others]. Physiology and biochemistry in modern medicine. 6th edition. [St. Louis] 1930. pp. xxxii + 1074. ill.

MACQUER, [PIERRE JOSEPH.] Dictionnaire de chimie. 2nd edition. [4to]. 2 vols. Paris 1778. pp. lii + 687, iv + 856. ill. (*Reference*.)

MACY, HAROLD. See ECKLES, CLARENCE HENRY.

MAILEY, R. D. See GOODWIN, HARRY MANLEY.

MANNING, ALEXANDER BERNARD. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

MARCHAND, B. DE C. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry Series No. 98.)

MARLOW, GEORGE STANLEY WITHERS. Law and industry. London 1929. pp. viii + 319.

MARTIN, ARTHUR JOHN. Sewage and sewage disposal. London 1930. pp. 62.

MASON, CLYDE WALTER. See CHAMOT, ÉMILE MONNIN.

MATHEWS, JOSEPH HOWARD. See DANIELS, FARRINGTON.

MATOSI, FRANK. See SCHAEFER, CLEMENS.

MEADE, GEORGE P. See SPENCER, GUILFORD LAWSON.

MEDICAL RESEARCH COUNCIL. Special Report Series, No. 11. The causation and prevention of tri-nitro-toluene (T.N.T.) poisoning [Reported by BENJAMIN MOORE.] London 1918. pp. viii + 85.

— Special Report Series, No. 58. T.N.T. poisoning and the fate of T.N.T. in the animal body. London 1921. pp. 88. ill.

— Special Report Series, No. 69. Reports on biological standards. I. On the physiological standardization of extracts of the posterior lobe of the pituitary body. By JOSHUA HAROLD BURN and HENRY HALLETT DALE. London 1922. pp. 52. ill.

— Special Report Series, No. 72. The acid-base equilibrium of the blood. By the Hæmoglobin Committee. London 1923. pp. 70. ill.

— Special Report Series, No. 119. A study of some organic arsenical compounds with a view to their use in certain streptococcal infections. By LEONARD COLEBROOK. London 1928. pp. 41. ill.

— Special Report Series, No. 141. The tannic acid treatment of burns. London 1929. By WILLIAM COMBE WILSON. pp. 34. ill.

MEERBOTT, P. B. See STANISLAUS, IGNATIUS VALERIUS STANLEY.

MEMMLER, KARL. See HANDBUCH DER KAUTSCHUKWISSENSCHAFT.

MENALDA, FREDERIK ARNOLD. Quantitatief onderzoek der reactie van Schotten-Baumann. Leiden 1929. pp. xii + 79.

MENDELÉEFF CONGRESS ON PURE AND APPLIED CHEMISTRY. V, 1928. Papers, etc. 3 vols. Kasan 1928. pp. 150, 32, 32. ill. (Reference.) [In Russian.]

MENSCHUTKIN, BORIS NIKOLAEVITSCH. Abridged chemistry for higher educational institutions. 2nd edition. Leningrad 1930. pp. 161. [In Russian.]

— Course of general (inorganic) chemistry. 3rd edition. Moscow 1930. pp. 642. ill. [In Russian.]

[MERCK, E.] Merck's index. 6th edition. Darmstadt 1929. pp. 644 + 14. (Reference.)

METZGER, HÉLÈNE. Newton, Stahl, Boerhaave et la doctrine chimique. Paris 1930. pp. vi + 332.

MEYERHOF, OTTO. Die chemischen Vorgänge im Muskel und ihr Zusammenhang mit Arbeitsleistung und Wärmebildung. Berlin 1930. pp. xiv + 350. ill.

MEZGER, ROBERT, and PISTOR, FRIEDRICH. Die Reaktionsfähigkeit des Koks. Ihre Ursachen, alte und neue Wege zu ihrer Bestimmung. Halle (Saale) 1927. pp. viii + 88. ill.

MICHAELIS, LEONOR. Oxidation-reduction potentials. Translated from the German manuscript by LOUIS B. FLEXNER. Philadelphia 1930. pp. xiv + 199. ill.

MIDDLETON, H. E. See UNITED STATES. *Department of Agriculture*. Technical Bulletin Nos. 170 and 178.

MIERS, SIR HENRY ALEXANDER. Mineralogy: an introduction to the scientific study of minerals. 2nd edition. Revised by HERBERT LISTER BOWMAN. London 1929. pp. xx + 658. ill.

MIHOLIĆ, STANKO STANKOV. Geokemija joda. (From the *Ann. Rep. Jugoslav. Med Soc.*, 1929.)

— Kemijska analiza alkalićnih kiselica u Donjoj Kostrivnici. Beograd 1930. pp. 16.

MILLER, RUSSELL W. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 424.

MILLIS, CHARLES THOMAS. Technical education, its development and aims. London 1925. pp. viii + 183.

MINCHIN, HOWARD D. See HULETT, GEORGE AUGUSTUS.

MINES DEPARTMENT. *Safety in Mines Research Board*. Paper No. 56. The relative inflammability of coal dusts: a laboratory study. By A. L. GODBERT and RICHARD VERNON WHEELER. London 1929. pp. 23. ill.

— — Paper No. 57. Mine rescue apparatus: the S.M.R.B. gas mask. By S. H. KATZ and C. S. W. GRICE. London 1930. pp. 37. ill.

— — Paper No. 59. The effect of the rate of cooling on the structure and constitution of steel. By J. M. ROBERTSON. London 1930. pp. 57. ill.

— — Paper No. 60. Flame-proof electrical apparatus for use in coal mines. Summarising report by IRA CECIL FRANK STATHAM and RICHARD VERNON WHEELER. London 1930. pp. iv + 62. ill.

MINISTRY OF HEALTH. The Public Health (Preservative, &c., in Food) Regulations. (*Statutory Rules and Orders*, 1925, No. 775, as amended by 1926, No. 1557, and 1927, No. 577.) pp. 11.

— The purification of the water of swimming baths. London [1929]. pp. 52.

MINISTRY OF TRANSPORT. Treatment of sulphur fumes in connection with the working of the proposed electric power station of the London Power Company at Battersea. Interim report of the advisers to the London Power Company together with the interim report of the Committee presided over by the Government Chemist. London 1929. pp. 10. ill.

MITCHELL, CHARLES AINSWORTH. [Editor.] Recent advances

in analytical chemistry. Vol. I. London 1930. pp. x + 421. ill.

MITTER, PRAFULLA CHANDRA. Some aspects of biochemical synthesis. Presidential address (chemistry section) 17th Indian Science Congress. Allahabad 1930. pp. 19.

MOLITOR, HEINRICH. Die Fabrikation der Soda. Leipzig 1925. pp. xvi + 231. ill.

MONIER-WILLIAMS, GORDON WICKHAM. A report on the determination of sucrose, lactose and invert sugar in sweetened condensed milk. (*Ministry of Health Reports on Public Health and Medical Subjects*, No. 57.) London 1930. pp. 23.

— The effect on foods of fumigation with hydrogen cyanide. (*Ministry of Health Reports on Public Health and Medical Subjects*, No. 60.) London 1930. pp. 32.

MOORE, BENJAMIN. See MEDICAL RESEARCH COUNCIL. Special Report Series.

MORRISON, FRANK RICHARD. Ambergris and how to recognise it. (*Sydney Technological Museum Bulletin*, No. 15.) 1929.

— See PENFOLD, ARTHUR RAMON.

MORTON, JAMES. Dyes and textiles in Britain: 1930. [Edinburgh] 1930. pp. 43.

MÜLLER, ERICH. Die elektrometrische Massanalyse. Dresden 1921. pp. viii + 110. ill.

MÜLLER, ROBERT. See HANDBUCH DER ALLGEMEINEN CHEMIE.

MULLIN, CHARLES EARL. Influence du p_H dans les phénomènes de teinture. Paris 1929. pp. 84.

NASH, ALFRED WILLIAM, and BOWEN, ARTHUR RILEY. The principles and practice of lubrication. London 1929. pp. xii + 315. ill.

NASINI, RAFFAELLO. I soffioni e i lagoni della Toscana e la industria boracifera. Storia, studi, ricerche chimiche e chimico-fisiche eseguite principalmente nell'ultimo venticinquennio. Roma 1930. pp. xii + 658. ill.

NATIONAL BENZOLE ASSOCIATION. Standard specifications for benzole and allied products, 1929. London 1929. pp. xiv + 145. ill. (*Reference.*)

NATIONAL BENZOLE ASSOCIATION and UNIVERSITY OF LEEDS. *Joint Benzole Research Committee*. Seventh report. London 1930. pp. vi + 149. ill. (*Reference.*)

NEWCOMB, CLIVE. A scheme for the analysis of small urinary calculi. (From the *Indian J. Med. Research*, 1930, 17.)

— The water-content of the heart-muscle in beri-beri columbiae. (From the *Indian J. Med. Research*. 1930, 17.)

NEWCOMB, CLIVE. Salt licks. (From the *Trans. F.E.A.T.M. 7th Congress*, 1927, 3.) Calcutta 1929.

NEWCOMB, CLIVE, and SANKARAN, GANAPATI. A note on iodine metabolism. (From the *Trans. F.E.A.T.M. 7th Congress*, 1927, 3.) Calcutta 1929.

NEWITT, DUDLEY MAURICE. See BONE, WILLIAM ARTHUR.

— See CHEMICAL ENGINEERING AND CHEMICAL CATALOGUE.

NEWTON, SIR ISAAC. See METZGER, HÉLÈNE.

NICHOLS, MELVIN L. See DENNIS, LOUIS MONROE.

NIEL, C. B. VAN. The propionic acid bacteria. Haarlem 1928. pp. viii + 187. ill.

NIJK, DIRK ROELOF. Een vergelijkend onderzoek van kerngesubstitueerde phenylphosphine- en phenylarsinezuren. Leiden 1922. pp. x + 73. ill.

NISHIDA, KITSUJI, and HASHIMA, HIDEO. Chemische Untersuchungen ueber das Glukomannan aus "Konjak." (From the *J. Dept. Agric., Kyushu Imp. Univ.*, 1930, 2.) ill.

NONNENMACHER, E. Die Jute. Part I. Berlin 1930. pp. viii + 571. ill.

NORRIS, DOROTHY, and BATES, H. T. Notes on the establishment of *Aleurites Fordii* (tung oil) in the Ranchi district of Chota Nagpur. (From the *Indian Forester*, 1930.)

NOTTAGE, MILLICENT EMMA. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Lubrication Research*.

OBINATA, ICHJI. On the nature of eutectoid-transformation in relation to the mechanism of quenching and tempering of aluminium-bronze. Parts I and II. (From the *Mem. Ryojun Coll. Eng.*, 1929-30, 2-3.) ill.

— Studies on quenching velocities. (From the *Mem. Ryojun Coll. Eng.*, 1930, 2.) ill.

ODDO, GIUSEPPE. Trattato di chimica organica. Palermo 1930. pp. xvi + 949. ill.

ODELL, WILLIAM W. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Bulletin 294.

OLDRIGHT, G. L. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Bulletin 281.

OLMSTEAD, L. B. See UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 170.

OPTICAL SOCIETY. See PHYSICAL SOCIETY.

OPTICAL SOCIETY OF AMERICA. The Review of Scientific Instruments. New Series, Vol. I, etc. Menasha, Wisconsin 1930 +. (*Reference*.)

ORGANIC SYNTHESSES: an annual publication of satisfactory

methods for the preparation of organic chemicals. Vol. X. New York 1930. pp. viii + 119. ill.

OSBORN, ALBERT S. Questioned documents. 2nd edition. Albany, N.Y. 1929. pp. xxiv + 1028. ill.

OSBORNE, THOMAS BURR. *See* CONNECTICUT AGRICULTURAL EXPERIMENT STATION.

OSTWALD, WOLFGANG. *See* HANDBUCH DER KOLLOIDWISSENSCHAFT IN EINZELDARSTELLUNGEN.

PALMÆR, WILH. The corrosion of metals. Part I. General theory. (*Ingeniörsvetenskapsakademiens Handlingar* No. 93.) Stockholm 1929. pp. 347. ill.

PANEBIANCO, R. Approximatione numerico neglecto ab ullos physico et chemico. (From *Schola et Vita*, 1929, 4.)

PARKES, LOUIS COLTMAN, and KENWOOD, HENRY RICHMOND. Hygiene and public health. 8th edition. Revised by H. R. KENWOOD and HAROLD KERR. London 1929. pp. xii + 823. ill.

PARSONS, THOMAS RICHARD. The materials of life. A simple presentation of the science of biochemistry. London 1930. pp. 288. ill.

PAULI, WOLFGANG, and VALKÓ, EMERICH. Elektrochemie der Kolloide. Wien 1929. pp. xii + 647. ill.

PAYMAN, WILLIAM, and STATHAM, IRA CECIL FRANK. Mine atmospheres. London 1930. pp. xii + 336. ill.

PENFOLD, ARTHUR RAMON. Eucalyptus, the essence of Australia. Sydney 1930. pp. 8. ill.

PENFOLD, ARTHUR RAMON, and MORRISON, FRANK RICHARD. Australian tea trees of economic value. Part I. (*Sydney Technological Museum Bulletin*, No. 14.) 1929. pp. 15. ill.

PENMAN, F. *See* AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research*.

PHILLIPS, MAX. *See* COHEN, BARNETT.

PHYSICAL SOCIETY and OPTICAL SOCIETY. Photo-electric cells and their applications. A discussion at a joint meeting. London 1930. pp. 236. ill.

PICKARD, JOSEPH ALLEN. Filtration and filters. With a section on the mathematical aspects of filtration by A. J. V. UNDERWOOD. London 1929. pp. 488. ill.

PINE INSTITUTE OF AMERICA. Abstracts. Chemical Section. Vol. IV, No. 7, etc. Pittsburgh 1930 +. (*Reference*.) [In mimeograph form.]

— Technical Bulletin No. 1. Rosin in synthetic resins. Prepared by W. B. BURNETT. Jacksonville, Fla. 1930. pp. vi + 97. (*Reference*.) [In mimeograph form.]

PINES, CHARLES C. See LEFFMANN, HENRY.

PISTOR, FRIEDRICH. See MEZGER, ROBERT.

PITTMAN, H. A. See AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research.*

PLINIUS, CAIUS SECUNDUS. Chapters on chemical subjects. Part I. Edited, with translation and notes, by KENNETH CRAUDE BAILEY. London 1929. pp. 249.

PONDAL, ISIDRO PARGA. Sobre la presencia de la pirrotina en Galicia. Análisis de la pirrotina de La Mañoca (Santiago). (From the *Arq. Seminario Est. Galegos*, 1929.)

— Estudio químico de la nontronita de Chenlo (Pontevedra). Mineral nuevo para España. (From the *Arq. Seminario Est. Galegos*, 1929.)

— El contenido en iodo de las principales algas marinas de las costas de Galicia. (From *Datos Geoquím, Galicia*, 1927.)

PONDAL, ISIDRO PARGA, and VÁZQUEZ-GARRIGA, J. Contribución al estudio de los minerales de wolframio de Galicia. I. Análisis de las wolframitas de la Brea, Corpiño y Carboeiro (Lalín, Pontevedra). (From the *Arq. Seminario Est. Galegos*, 1929.)

POORE, H. D. See UNITED STATES. *Department of Agriculture.* Circular No. 98.

POUCHER, WILLIAM ARTHUR. Perfumes, cosmetics and soaps with especial reference to synthetics. 3rd edition. Vol. I. London 1930. pp. x + 394. ill.

PREGL, FRITZ. Die quantitative organische Mikroanalyse. 3rd edition. Berlin 1930. pp. xii + 256. ill.

— Quantitative organic microanalysis. 2nd English edition. Translated by ERNEST FYLEMAN. London 1930. pp. xiv + 237. ill.

RABAS, A. See DUBSKÝ, J. V.

RABINOWITSCH, EUGEN, and THILO, ERICH. Periodisches System. Geschichte und Theorie. Stuttgart 1930. pp. xii + 302. ill.

RANGASWAMI, M. See INDIAN LAC ASSOCIATION FOR RESEARCH.

REALE ACCADEMIA D'ITALIA. Annuario. Vol. I, 1929, etc. Roma 1930 +. (*Reference.*)

REDGROVE, HERBERT STANLEY, and FOAN, GILBERT A. Paint, powder and patches. London 1930. pp. xii + 170. ill.

RETAIL CHEMIST, The. Vol. I, etc. London 1930 +. (*Reference.*)

REVIEW OF SCIENTIFIC INSTRUMENTS. See OPTICAL SOCIETY OF AMERICA.

REYNOLDS, D. A. See UNITED STATES. *Department of Commerce.* Bureau of Mines. Technical Paper 409.

RICE, GEORGE S. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 448.

RICE, JAMES. Introduction to statistical mechanics for students of physics and physical chemistry. London 1930. pp. x + 333.

RIDEAL, ERIC KEIGHTLEY. An introduction to surface chemistry. [2nd edition.] Cambridge 1930. pp. xii + 459.

RIDEAL, SAMUEL, and associates. The carbohydrates and alcohol. London 1920. pp. xvi + 219. ill.

RIEBL, R. See BATAVIA. *Proefstation voor Rubber*.

RITCHIE, DOROTHY. See CAMPBELL, NORMAN ROBERT.

ROARK, R. C. See UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 162.

ROBERTSON, GEORGE. Ueber die Verseifungs- und Reduktionsprodukte des Phenylidibenzoylglutarsäurediäthylesters. Leipzig. 1899. pp. 39.

ROBERTSON, J. M. See MINES DEPARTMENT. *Safety in Mines Research Board*.

ROBERTSON, THORBURN BRAILSFORD. See AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research*.

ROMANN, R. See FRÉCHET, M.

ROSENTHALER, LEOPOLD. The chemical investigation of plants. Authored translation of the 3rd German edition. By SUDHAMOY GHOSH. (Monographs on Modern Chemistry.) London 1930. pp. viii + 197. ill.

RUBBER INFORMATION. A compendium of the rubber industry in all its branches. Edited by HARRY BRENNAN CRONSHAW. London 1930. pp. 237. (*Reference*.)

RÜBENCAMP, R. See ZERR, GEORG.

RUEDY, RICHARD. Bandenspektren auf experimenteller Grundlage. Braunschweig 1930. pp. vi + 124.

RUPE, HANS. Anleitung zum Experimentieren in der Vorlesung über organische Chemie. 2nd edition. Berlin 1930. pp. viii + 177. ill.

SAMUEL, GEOFFREY. See AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research*.

SAND, HENRY JULIUS SALOMON. Zur Kenntnis von Alphylnitrosokörpern. Zürich 1898. pp. 78.

SANDVED, KARL. An exact method for ascertaining the bimolecular course of a chemical reaction. (From the *Forsk. Kong. Norske Vidensk. Selsk.*, 1930, 2.)

SANKARAN, GANAPATI. See NEWCOMB, CLIVE.

SATO, S. See SHINODA, J.

SAVAGE, WILLIAM GEORGE. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Food Investigation Board*.

SCHAEFER, CLEMENS, and MATOSS, FRANK. Der Ramaneffekt. (Fortschritte der Chemie, Physik und physikalischen Chemie. Vol. XX.) Berlin 1930. pp. iv + 52. ill. (*Reference.*)

SCHÄFFNER, ANTON. Enzyme und ihre Bedeutung zur Konstitutionsermittlung von Naturstoffen. (Fortschritte der Chemie, Physik und physikalischen Chemie. Vol. XX.) Berlin 1930.

SCHIMMEL, ALFRED. Metallographie der technischen Kupferlegierungen. Berlin 1930. pp. vi + 142. ill.

SCHNEIDER, GUSTAV. See SIMMERSBACH, OSKAR.

SCHOFIELD, T. H. See AERONAUTICAL RESEARCH COMMITTEE.

SCHREINEMACHERS, HENDRIK HUBERT. Reactiesnelheden van 1.chloor (broom) 2.4.dinitrobenzol met aminen. Leiden 1930. pp. xii + 123.

SCHUETTE, H. A., and THOMAS, RALPH W. The composition of the fat of the silver black fox. (From the *Trans. Wisconsin Acad. Sci.*, 1930, 25.)

SCHUSTER, FRITZ. See BERTELSMANN, WILHELM.

SCHWEITZER, EUGEN. See GERLACH, WALTHER.

SCHWEIZER, CH. Ueber Mehlbleichung. (From the *Mitt. Geb. Lebensm. Hyg.*, 1928, 19.)

— Zum Nachweis von Auslandshonigen durch bakteriologische Prüfung. (From the *Mitt. Geb. Lebensm. Hyg.*, 1928, 19.)

— Ueber das Verfahren von Boulard zur Verhinderung der Weitervergärung in einem beliebigen Zeitpunkt. (From the *Mitt. Geb. Lebensm. Hyg.*, 1929, 20.)

— Versuche mit hitzegefälltem Pferdefleischeiweiss als Präzipitogen. (From the *Mitt. Geb. Lebensm. Hyg.*, 1929, 20.)

— Zum Nachweis von Roggenmehl in Weizenmehl. (From the *Mitt. Geb. Lebensm. Hyg.*, 1929, 20.)

SCIENTIFIC AND INDUSTRIAL RESEARCH, Department of. Report of test . . . on the "Babcock" low temperature carbonisation plant installed at the Dunston power station of the Newcastle-upon-Tyne Electric Supply Company, Ltd. London 1930. pp. vi + 30. ill.

— Report of test . . . on the Turner retort installed at the works of the Comac Oil Co., Ltd., Coalburn, Lanarkshire. London 1930. pp. vi + 29. ill.

— *Building Research*. Bulletin No. 6. The prevention of corrosion of lead in buildings. By FRANK LAWRENCE BRADY. London 1929. pp. iv + 4. ill.

— — Bulletin No. 7. Hot cement. By NORMAN DAVEY. London 1930. pp. iv + 9. ill.

SCIENTIFIC AND INDUSTRIAL RESEARCH, Department of. *Building Research*. Bulletin No. 8. Ultra-violet window-glazing. By H. E. BECKETT. London 1930. pp. iv + 13. ill.

— — Bulletin No. 9. Bonding new concrete to old. By NORMAN DAVEY. London 1930. pp. iv + 4. ill.

— — Special Report No. 14. The use of calcium chloride or sodium chloride as a protection for mortar or concrete against frost. By W. N. THOMAS. London 1929. pp. iv + 30.

— — Special Report No. 15. The corrosion of steel by breeze and clinker concretes. By FRANK LAWRENCE BRADY. London 1930. pp. iv + 15. ill.

— — Special Report No. 16. Construction joints in concrete. Bonding new concrete to old. By NORMAN DAVEY. London 1930. pp. vi + 74. ill.

— — Technical Paper No. 8. The corrosion of lead in buildings. By FRANK LAWRENCE BRADY. London 1929. pp. vi + 30. ill.

— — Technical Paper No. 9. The estimation of free calcium hydroxide in set cements. A calorimetric method. By GEORGE EDWARD BESSEY. London 1930. pp. iv + 25.

— — Technical Papers Nos. 10–12. Studies in reinforced concrete. Parts I–III. By WILLIAM HENRY GLANVILLE. London 1930. pp. vi + 37, vi + 49, vi + 39. ill.

— *Committee on Welded Containers*. Report. London 1930. pp. iv + 51. ill.

— *Food Investigation Board*. Special Report No. 3. The methods used for the inspection of canned foods and their reliability for this purpose. Part I. Canned meat. By WILLIAM GEORGE SAVAGE. London 1920. pp. 23.

— — Special Report No. 10. The methods used for the inspection of canned foods. Part II. Canned marine products. By WILLIAM GEORGE SAVAGE. London 1922. pp. iv + 32.

— — Special Report No. 38. Wastage in imported fruit : its nature, extent and prevention. By J. BARKER. London 1930. pp. vi + 62. ill.

— — Special Report No. 39. The prevention of wastage in New Zealand apples. By J. BARKER. London 1930. pp. vi + 26. ill.

— *Fuel Research*. Physical and chemical survey of the national coal resources, No. 15. A survey of Scottish coking and furnace coals. By THOMAS GRAY, assisted by THOMAS HAWKINS PERCY HERIOT and WILLIAM JAMES SKILLING. London 1930. pp. vi + 160. ill.

SCIENTIFIC AND INDUSTRIAL RESEARCH, Department of. *Fuel Research*. Physical and chemical survey of the national coal resources, No. 16. The microscopical examination of coal. By CLARENCE ARTHUR SEYLER, assisted by W. J. EDWARDS. London 1929. pp. vi + 67. ill.

— — Physical and chemical survey of the national coal resources, No. 17. The significance of spores in the correlation of coal seams. Part I.—The Parkgate seam—South Yorkshire area. By L. SLATER, MARJORIE M. EVANS, and GLADYS E. EDDY. London 1930. pp. vi + 28. ill.

— — Special Report No. 5. Fires in steamship bunker and cargo coal. London 1929. pp. vi + 55. ill.

— — Technical Paper No. 24. The assay of coal for carbonisation purposes. (Part iii.) Correlation with coal gas manufacture. By JAMES GRIEVE KING and L. J. EDGCOMBE. London 1930. pp. vi + 30. ill.

— — Technical Paper No. 25. The reactivity of coke. 3.—The influence of iron compounds. By JOHN HENRY JONES, JAMES GRIEVE KING and FRANK STURDY SINNATT. London 1930. pp. viii + 32. ill.

— — Technical Paper No. 26. The influence of size of coal during gas manufacture. London 1930. pp. vi + 55. ill.

— — Technical Paper No. 27. The measurement of a rapidly fluctuating flow of gas. By JAMES GRIEVE KING and B. H. WILLIAMS. London 1930. pp. vi + 18. ill.

— — Technical Paper No. 28. The determination of aromatic, unsaturated and naphthene hydrocarbons in light oils and motor spirits. By ALEXANDER BERNARD MANNING and F. M. E. SHEPHERD. London 1930. pp. iv + 14. ill.

— *Lubrication Research*. Technical Paper No. 1. The analysis of commercial lubricating oils by physical methods. [By SIR WILLIAM BATE HARDY, C. JAKEMAN, and MILLICENT EMMA NOTTAGE.] London 1930. pp. iv + 66. ill.

— *Steel Structures Research*. Verbatim proceedings of a conference . . ., 16th October 1930. London 1930. pp. iv + 38.

— *Water Pollution Research*. Summary of Current Literature. Vol. III, etc. London 1930 +. (*Reference*.)

SEDLACZEK, ERWIN. Die Krackverfahren unter Anwendung von Druck (Druckwärmespaltung). Berlin 1929. pp. iv + 402. ill.

SEEKLES, LAURENS. Aldehyden afgeleid van cinchonine, chinine en hun acylderivaten. Leiden 1922. pp. viii + 120.

SEYLER, CLARENCE ARTHUR. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

SHEA, G. B. See UNITED STATES. *Department of Commerce.* Bureau of Mines. Technical Paper 462.

SHEPHERD, F. M. E. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research.*

SHERWOOD, R. C. Effects of wheat drying upon milling and baking properties. (Bulletin No. 66, State Dept. Agric., Minnesota.) St. Paul, Minn. 1929. pp. 36. ill.

SHINODA, J., SATO, S., and KAWAGOYE, M. Neue Synthese von Polyoxychalkon, Polyoxyhydro-chalkon und Polyoxyflavanon. VI. Zur Synthese von Butein, Butin und Phloretin. (From the *J. Pharm. Soc. Japan*, 1929, 49.) [In Japanese. German summary.]

SIMMERSBACH, OSKAR. Grundlagen der Koks-Chemie. 3rd edition. By GUSTAV SCHNEIDER. Berlin 1930. pp. vi + 366. ill.

SIMMONDS, NINA. See MCCOLLUM, ELMER VERNER.

SINNATT, FRANK STURDY. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research.*

SKILLING, WILLIAM JAMES. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research.*

SLATER, L. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research.*

SMITH, LONGFIELD. Über einige Derivate des α -Methyl- β -keto-pentamethenylens (Looff's Keton). Leipzig 1898. pp. 27.

SMITH, MAURICE I., and ELVOVE, ELIAS. The action of irradiated ergosterol in the rabbit. (From the *U.S. Public Health Reports*, 1929, 44.)

SMITH, PAUL I. Glue and gelatine. London 1929. pp. x + 162. ill.

SMITH, SYBIL L. See UNITED STATES. *Department of Agriculture.* Circular No. 84.

SMITH, W. C. See UNITED STATES. *Department of Agriculture.* Circular No. 110.

SMITHELLS, COLIN JAMES. Impurities in metals, their influence on structure and properties. 2nd edition. London 1930. pp. xiv + 190. ill.

SNELGROVE, DOUGLAS ROSEBERY. See BRIGGS, WILLIAM.

SOCIÉTÉ DE BIOLOGIE. Comptes rendus. Vol. CIII, etc. Paris 1930 +. (*Reference.*)

[SOCIÉTÉ DE CHIMIE INDUSTRIELLE.] La grande œuvre de la chimie. Paris 1929. pp. 250. ill.

SOCIÉTÉ FRANÇAISE DE PHOTOGRAPHIE. Bulletin. 3rd series. Vol. XIV, etc. Paris 1927 +. (*Reference.*)

SOCIETY OF CHEMICAL INDUSTRY OF VICTORIA. [Proceedings.] Vol. XXVII, etc. Melbourne 1927 +. (*Reference.*)

SOCIETY OF RHEOLOGY. *Journal of Rheology*. Vol. I, etc. Easton Pa., 1929 +. (*Reference.*)

SÖDERBAUM, HENRIK GUSTAV. *Jac. Berzelius. Levnadsteckning*. 2 vols. Uppsala 1929. pp. x + 548 + 32, viii + 540 + 14. ill.

SOMMERFELD, ARNOLD. *Wave-mechanics*. Translated by HENRY L. BROSE. Supplementary volume to "Atomic structure and spectral lines." London 1930. pp. xii + 304. ill.

SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry, Series No. 95.) The soil solution and its relation to the soil colloids. By D. J. R. VAN WIJK. (From the *Proc. Dept. Conf.*, 1929.)

— — (Division of Chemistry, Series No. 96.) Note on the distribution of nitrogen in some fruits. By P. D. V. D. R. COPEMAN. (From the *Proc. Dept. Conf.*, 1929.)

— — (Division of Chemistry, Series No. 97.) Routine mechanical analysis of soils by the Robinson method. By J. P. VAN ZIJL. (From the *Proc. Dept. Conf.*, 1929.)

— — (Division of Chemistry, Series No. 98.) A report of the findings of the "pica survey" of 1921-1922. By J. P. VAN ZIJL, H. H. GREEN, and B. DE C. MARCHAND. (From the *Proc. Dept. Conf.*, 1929.)

— — (Division of Chemistry, Series No. 99.) Hardpans, concretionary layers and neo-formations of the soils of the more arid parts of the Union. By J. V. CUTLER. (From the *Proc. Dept. Conf.*, 1929.)

— — (Division of Chemistry, Series No. 100.) The fixation of phosphates in soils. By C. O. WILLIAMS. (From the *Proc. Dept. Conf.*, 1929.)

— — (Division of Chemistry, Series No. 104.) Studies in pasture management. A preliminary report on the seasonal composition of certain South African pasture grasses in relation to their manuring and intensity of grazing. By R. R. STAPLES and A. J. TAYLOR. (From the *S. African J. Sci.*, 1929, **26**.) ill.

— — (Division of Chemistry, Series No. 105.) Citrus by-products research: orange oil. (From *Farming in S. Africa*, 1930.)

— — (Division of Chemistry, Series No. 110.) Microchemical analysis of soils. By JOHANNES LODEWIKUS STEENKAMP. (From the *J. S. African Chem. Inst.*, 1930.)

— — (Division of Chemistry, Series No. 111.) Notes on the colorimetric determination of p_H values in alkaline soils. By P. KAMERMAN. (From the *J. S. African Chem. Inst.*, 1930.)

— — (Division of Chemistry, Series No. 112.) Certain

aspects of the acid to sugar ratio in oranges. By D. J. R. VAN WIJK. (From the *J. S. African Chem. Inst.*, 1930.)

SOUTH MANCHURIA RAILWAY COMPANY. Abstracts from the Report of the Central Laboratory. Dairen 1929. pp. 42. ill.

SPACKMAN, CHARLES. Some writers on lime and cement, from Cato to the present time. Cambridge 1929. pp. xviii + 287. (*Reference.*)

SPENCER, GUILFORD LAWSON. A handbook for cane-sugar manufacturers and their chemists. 7th edition. By GEORGE P. MEADE. New York 1929. pp. xx + 560. ill.

SPIEGEL-ADOLF, MONA. See HANDBUCH DER KOLLOIDWISSENSCHAFT IN EINZELDARSTELLUNGEN.

SPÖTTEL, WALTER. See FRÖLICH, GUSTAV.

SPONS' Workshop receipts for manufacturers and scientific amateurs. Supplement. London 1930. pp. viii + 458. ill. (*Reference.*)

SPRUYT, J. P. Een onderzoek naar een colorimetrische methode voor de keuring van rijst op zilvervlies- (anti-beri-beri-vitamine-) gehalte. (From the *Med. Dienst. Volksgezond. Ned.-Indie*, 1930.)

STAHL, GEORGE ERNEST. See METZGER, HÉLÈNE.

STAMBERGER, PAUL. The colloid chemistry of rubber. London 1929. pp. vi + 80. ill.

STANDARDIZATION OF TAR PRODUCTS TESTS COMMITTEE. Standard methods for testing tar and its products. London 1929. pp. xxx + 295. ill.

STANISLAUS, IGNATIUS VALERIUS STANLEY, and MEERBOTT, P. B. American soap maker's guide. An up to date treatise on the art and science of the manufacture of soaps, candles and allied preparations. [New York 1929.] pp. xii + 709. ill.

STAPLES, R. R. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry, Series No. 104.)

STATE COLLEGE OF WASHINGTON. Research Studies. Vol. I, etc. Pullman, Washington 1929 +. (*Reference.*)

STATHAM, IRA CECIL FRANK. See MINES DEPARTMENT. *Safety in Mines Research Board*.

— See PAYMAN, WILLIAM.

STEENKAMP, JOHANNES LODEWIKUS. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry, Series No. 110.)

STEINER, O. Industrie der Fette und Seifen. Dresden 1925. pp. viii + 83.

STEPHENSON, MARJORY. Bacterial metabolism. (Monographs on Biochemistry.) London 1930. pp. xii + 320. ill.

STEWART, ALFRED WALTER. Recent advances in physical and inorganic chemistry. 6th edition. London 1930. pp. xii + 387. ill.

STEWART, ROBERT WALLACE. See BRIGGS, WILLIAM.

STOCK, ERICH. See DIETERICH, KARL.

STUCKERT, LUDWIG. Die Emailfabrikation. Ein Lehr- und Handbuch für die Emailindustrie. Berlin 1929. pp. viii + 276. ill.

STUMPER, R. Die physikalische Chemie der Kesselsteinbildung und ihrer Verhütung. (Sammlung. New Series. Vol. I.) Stuttgart 1930. pp. 51. ill. (*Reference.*)

SULLIVAN, JOHN D. See UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 424.

SULLIVAN, MAX, and HESS, W. C. Studies on the biochemistry of sulphur. II, III and V. (From the *U.S. Public Health Reports*, 1929, 44.)

SUPINO, OSCAR. Acido solforico e superfosfati minerali. Milano 1930. pp. viii + 253. ill.

SYDNEY, UNIVERSITY OF. Journal of the Cancer Research Committee. Vol. I, etc. Sydney 1929 +. (*Reference.*)

TÄNZER, ERNST. See FRÖLICH, GUSTAV.

TASMAN, ABEL. Snelheidsmetingen bij ringopening van phtaliederivaten. Leiden 1927. pp. xii + 132.

TATE, FRANCIS GEORGE HENRY. Alcoholometry: an account of the British method of alcoholic strength determination. With an historical introduction written in collaboration with GEORGE HUGH GARB. London 1930. pp. xviii + 93. ill.

TATU, HENRI. See CRAVERI, CALISTO.

TAUSSIG, RUDOLF. Die Industrie des Kalziumkarbides. (Monograph. angew. Electrochem. Vol. 51.) Halle (Saale) 1930. pp. xvi + 519. ill.

TAYLOR, A. J. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry, Series No. 104.)

TAYLOR, FRANK SHERWOOD. A survey of Greek alchemy. (From the *J. Hellenic Studies*, 1930, 50.) ill.

TAYLOR, J. K. See AUSTRALIA, COMMONWEALTH OF. *Council for Scientific and Industrial Research*.

TEPPEMA, JAN. Laktoringopening van phtaliederivaten door hydrazine. Leiden 1922. pp. xii + 81.

TEUNISSEN, HENDRIK PIETER. Snelheidsmetingen bij de opening van den furaanring in het oxymethylfurfurol. Leiden 1929. pp. xii + 232.

THATE, HEINRICH. Hydreering van pyridine met waterstof onder druk volgens de werkwijze van Bergius. Leiden 1929. pp. xii + 118.

THAYSEN, AAGE CHRISTIAN, and GALLOWAY, L. D. The microbiology of starch and sugars. London 1930. pp. viii + 336.

THEWS, EDMUND RICHARD. Metallurgy of white metal scrap and residues. New York 1930. pp. xiv + 383. ill.

THIERFELDER, HANS, and KLENK, ERNST. Die Chemie der Cerebroside und Phosphatide. Berlin 1930. pp. viii + 224.

THIESSEN, REINHARDT. *See UNITED STATES. Department of Commerce.* Bureau of Mines. Technical Paper 446.

THILO, ERICH. *See RABINOWITSCH, EUGEN.*

THOM, CHARLES. The Penicillia. [Baltimore, Md.] 1930. pp. xiv + 644. ill.

THOMAS, RALPH W. *See SCHUETTE, H. A.*

THOMAS, W. N. *See SCIENTIFIC AND INDUSTRIAL RESEARCH. Building Research.*

THOMPSON, J. G. *See UNITED STATES. Department of Commerce.* Bureau of Standards. Circular No. 382.

THOMS, HERMANN. [Editor.] Handbuch der praktischen und wissenschaftlichen Pharmazie. Vol. V. Parts v and vi. Berlin 1930.

THUROW, WILLY H. English-German and German-English dictionary of chemistry. Part I. English-German. Berlin 1929. pp. viii + 261. (*Reference.*)

TILLYARD, ROBIN JOHN. *See AUSTRALIA, COMMONWEALTH OF. Council for Scientific and Industrial Research.*

TOKYO BUNRIKA DAIGAKU. Science Reports. Section A. Vol. I, etc. Tokyo 1930 +. (*Reference.*)

TOMIYAMA, TETSUO. *See KITAGAWA, MATSUNOSUKE.*

TOWNEND, DONALD THOMAS ALFRED. *See BONE, WILLIAM ARTHUR.*

TREADWELL, FREDERICK PEARSON. Analytical chemistry. 7th English edition. Vol. I. Qualitative analysis. Translated and revised by WILLIAM THOMAS HALL. New York 1930. pp. x + 610. ill.

TRICKS OF TRADE in the adulterations of food and physic; with directions for their detection and counteraction. London 1856. pp. xvi + 191.

TRILLAT, JEAN JACQUES. Les applications des rayons X. Physique-chimie-métallurgie. (Recueil des Conférences-Rapports de Documentation sur la Physique.) Paris 1930. pp. iv + 298. ill.

TRIMBLE, C. S. *See UNITED STATES. Department of Agriculture.* Technical Bulletin No. 159.

UENO, SHÛZÔ. *See CHIKASHIGE, MASUMI.*

UKRAINIAN COUNCIL SOCIALIST REPUBLIC. Scientific Magazine of the Chemical Cathedar of Katerynoslaw. Ukraine 1926. (*Reference.*)

UNDERWOOD, A. J. V. See PICKARD, JOSEPH ALLEN.

UNITED STATES. *Department of Agriculture*. Circular No. 84. Vitamins in food materials. By SYBIL L. SMITH. Washington 1929. pp. 54. ill.

— — Circular No. 98. The Wonderful variety of pomegranate: composition, commercial maturity, and by-products. By E. M. CHACE, C. G. CHURCH, and H. D. POORE. Washington 1930. pp. 15. ill.

— — Circular No. 110. Specific gravity and Baumé gravity tables for turpentine. By W. C. SMITH and F. P. VEITCH. Washington 1930. pp. 9.

— — Technical Bulletin No. 141. The spontaneous combustion of hay. By CHARLES A. BROWNE. Washington 1929. pp. 38. ill.

— — Technical Bulletin No. 159. Keeping quality of butter made from cream of various acidities. By WILLIAM WHITE, C. S. TRIMBLE, and H. L. WILSON. Washington 1929. pp. 7.

— — Technical Bulletin No. 162. Tests of various aliphatic compounds as fumigants. By R. C. ROARK and R. T. COTTON. Washington 1930. pp. 52.

— — Technical Bulletin No. 169. The wearing quality and other properties of vegetable-tanned and of chrome-retanned sole leather. By R. W. FREY and I. D. CLARKE. Washington 1930. pp. 17. ill.

— — Technical Bulletin No. 170. A pipette method of mechanical analysis of soils based on improved dispersion procedure. By L. B. OLNSTEAD, LYLE T. ALEXANDER, and H. E. MIDDLETON. Washington 1930. pp. 22. ill.

— — Technical Bulletin No. 178. Properties of soils which influence soil erosion. By H. E. MIDDLETON. Washington 1930. pp. 16.

— *Department of Commerce*. Bureau of Foreign and Domestic Commerce. Trade Promotion Series, No. 78. The American chemical industry. Production and foreign trade in first quarter of twentieth century. Washington 1929. pp. vi + 114. ill.

— — Bureau of Mines. Bulletin 281. Precipitation of lead and copper from solution on sponge iron. By G. L. OLDRIGHT [and others]. Washington 1928. pp. viii + 131. ill.

— — — Bulletin 294. Carburetion of combustible gas with butane and propane-butane mixtures with particular reference to the carburetion of water gas. [By WILLIAM W. ODELL.] Washington 1929. pp. vi + 96. ill.

- UNITED STATES. *Department of Commerce*. Bureau of Mines. Technical Paper 409. Spontaneous heating of coal. By JOSEPH D. DAVIS and D. A. REYNOLDS. Washington 1928. pp. vi + 74. ill.
- — — Technical Paper 424. Thermodynamic properties of oxygen and nitrogen. By RUSSELL W. MILLAR and JOHN D. SULLIVAN. Washington 1928. pp. ii + 20. ill.
- — — Technical Paper 446. Terminology in coal research. By REINHARDT THIESSEN and WILFRID FRANCIS. Washington 1929. pp. iv + 27. ill.
- — — Technical Paper 448. Coal-dust explosions in mines: causes, effects, and recommendations for prevention. By GEORGE S. RICE. Washington 1929. pp. ii + 24.
- — — Technical Paper 450. Inflammability of mixed gases. By G. W. JONES. Washington 1929. pp. iv + 38. ill.
- — — Technical Paper 451. Calcium sulphate retarders for Portland cement clinker. By ERNEST E. BERGER. Washington 1929. pp. ii + 35. ill.
- — — Technical Paper 456. Classification and tabling of difficult ores with particular attention to fluorspar. By W. H. COGHILL. Washington 1929. pp. ii + 40. ill.
- — — Technical Paper 462. Safety at natural-gasoline plants. By G. B. SHEA. Washington 1929. pp. vi + 109. ill.
- — — Bureau of Standards. Domestic and industrial fuel oils. Commercial standard CS12-29. Washington 1929. pp. vi + 10.
- — — Circular No. 377. Some properties of sponge rubber. Washington 1929. pp. 8. ill.
- — — Circular No. 381. Sodium oxalate as a standard in volumetric analysis. pp. 9.
- — — Circular No. 382. Bismuth. [By J. G. THOMPSON.] Washington 1930. pp. 41.
- — — Miscellaneous Publication No. 108. Manufacture and properties of a cellulose product (maizolith) from cornstalks and corncobs. By C. E. HARTFORD. Washington 1930. pp. 10.
- — — Technologic Paper No. 112. Standardisation of the Saybolt universal viscosimeter. By WINSLOW H. HERSCHEL. Washington 1918. pp. 25.
- — — Technologic Paper No. 170. Pyrometric practice. By PAUL D. FOOTE, C. O. FAIRCHILD, and T. R. HARRISON. Washington, 1921. pp. 326. ill.
- [UNITED STATES] NATIONAL RESEARCH COUNCIL. A report of the Committee on the construction and equipment of chemical laboratories. New York 1930. pp. xiv + 340. ill.

UNITED STATES STEEL CORPORATION. Methods . . . for the sampling and analysis of coal, coke and by-products. 3rd edition. Pittsburgh [1929]. pp. xiv + 334. ill.

UNIVERSITY OF LEEDS. See NATIONAL BENZOLE ASSOCIATION.

VALKÓ, EMERICH. See PAULI, WOLFGANG.

VÁZQUEZ-GARRIGA, J. See PONDAL, ISIDRO PARGA.

VEITCH, F. P. See UNITED STATES. *Department of Agriculture*. Circular No. 110.

VENUGOPALAN, M. See INDIAN LAC ASSOCIATION FOR RESEARCH.

VORBRODT, LADISLAS. See GODLEWSKI, EMILE.

WALDEN, PAUL. See HANDBUCH DER ALLGEMEINEN CHEMIE.

WARE, JOHN C. The chemistry of the colloidal state: a textbook for an introductory course. New York 1930. pp. xiv + 313. ill.

WEBEL, A. A German-English technical and scientific dictionary. London 1930. pp. xii + 887. (*Reference.*)

WEHMER, CARL. Die Pflanzenstoffe. 2nd edition. Vol. I. Jena 1929. pp. xvi + 640.

WEISS, MAX. Das Trocknen der Kohle. Halle (Saale) 1930. pp. viii + 196. ill.

WELTZIEN, WILHELM, with the collaboration of KURT GÖTZE. Chemische und physikalische Technologie der Kunstseiden. Leipzig 1930. pp. xx + 521. ill.

WENTZEL, FRITZ. See EDER, JOSEF MARIA.

WERKMAN, C. H. See FULMER, ELLIS I.

WEST, CLARENCE JAY. [Compiler.] Five years of research in industry 1926-1930. A reading list. New York 1930. pp. 91.

WHEELER, RICHARD VERNON. See MINES DEPARTMENT. *Safety in Mines Research Board*.

WHITE, WILLIAM. See UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 159.

WIELAND, HEINRICH. See GATTERMANN, LUDWIG.

WIGGINTON, R. Coal carbonisation. London 1929. pp. x + 287. ill.

WIJK, D. J. R. VAN. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry Series, Nos. 95 and 112.)

WILD, A. MARTIN DE. The scientific examination of pictures: an investigation of the pigments used by the Dutch and Flemish masters. Translated from the Dutch by L. C. JACKSON. London 1929. pp. xvi + 106. ill.

WILLIAMS, B. H. See SCIENTIFIC AND INDUSTRIAL RESEARCH. *Fuel Research*.

WILLIAMS, C. O. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry, Series No. 100.)

WILLIAMS, JOHN WARREN. Molekulare Dipolmomente und ihre Bedeutung für die chemische Forschung. (Fortschritte der Chemie, Physik und physikalischen Chemie. Vol. XX.) Berlin 1930. pp. iv + 66. ill. (*Reference.*)

— See DANIELS, FARRINGTON.

WILSON, E. D. See ZWORYKIN, V. K.

WILSON, H. L. See UNITED STATES. *Department of Agriculture*. Technical Bulletin No. 159.

WILSON, WILLIAM COMBE. See MEDICAL RESEARCH COUNCIL. Special Report Series.

WISSENSCHAFTLICHE ZENTRALSTELLE FÜR ÖL- UND FETTFORSCHUNG, E. V. (WIZÖFF), BERLIN. Einheitliche Untersuchungsmethoden für die Fett- und Wachsindustrie. Part I (2nd edition) bound with Part II (1st edition). Stuttgart 1930. pp. 241. ill.

WITTE, ADOLF ANTONIUS MARIA. Nitro-benzolsulfonylhydraziden. Leiden 1930. pp. xii + 119.

WITTIG, GEORG. Stereochemie. Leipzig 1930. pp. xii + 388. ill.

WOERDEN, SIMON VAN. Refractometrisch onderzoek van methylhexahydroacetophenonen. Leiden 1924. pp. viii + 84.

WRIGHT, CHARLES HAROLD. Correlations between the specific conductivities of soil extracts, nitric nitrogen and soluble calcium. (From the *8th Ann. Bull., Agric. Dept. Nigeria*, 1929.) ill.

WÜSTENFELD, HERMANN. Lehrbuch der Essigfabrikation. Berlin 1930. pp. xvi + 403. ill.

ZAPAN, MIHAI. Sur la chloruration et la bromuration catalytiques des gaz riches en hydrocarbures méthaniques. Paris 1930. pp. 101. ill.

ZAPOLEON, L. B. Inedible animal fats in the United States: considered with special reference to sources of animal waste, the rendering industry, municipal reduction, and some effects of meat inspection. California 1929. pp. xvi + 353.

ZERR, GEORG, and RÜBENCAMP, R. Handbuch der Farbenfabrikation. 4th edition. Berlin [1930]. pp. xvi + 962. ill.

ZIJL, J. P. VAN. See SOUTH AFRICA, UNION OF. *Department of Agriculture*. (Division of Chemistry, Series Nos. 97 and 98.)

ZWORYKIN, V. K., and WILSON, E. D. Photocells and their application. New York 1930. pp. xii + 209. ill.

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