

## 新刊紹介

土木學會誌 第七卷第一號 大正十年二月

- Bach, C. und Graf, O.—Versuche mit eingespannten Eisenbetonbalken. Mit 59 Abbildungen und Zehn Tabellen. Wilhelm Ernst & Sohn, Berlin 1920. Preis geh. 17M.
- Bayle, M. G.—Cours de resistance des matériaux appliquée aux machines. Un volume in-8° raisin (16 x 25) de 478 pages et 263 figures. Librairie de l'Enseignement technique, éditeur, Paris.—Prix: 36 francs.
- Bayle, M. G.—Cours de statique graphique. Un volume in-8° de 164 pages et 120 figures. Librairie de l'Enseignement technique, éditeur, Paris. Prix: 15 francs.
- Bertrand de Fontvielant—Les méthodes modernes de la résistance des matériaux. Deuxième édition. Un volume in 8° de 104 pages, avec 11 figures. Gauthier-Villars, éditeur, Paris. Prix 9 francs.
- Boerner, F.—Statistische Tabellen. Belastungsangaben und Formeln zur Aufstellung von Berechnungen für Baukonstruktionen. Mit 367 Textabbildungen. Wilhelm Ernst & Sohn, Berlin 1920. Preis geh. 20 M.
- Camp, J. M. and Francis, C. B.—The making, shaping and treating of steel. 5 x 8, 614 P., illustrated, leather. The Carnegie Steel Co., Pittsburgh, Pa. Price: \$ 5.00.
- Fritsch, J.—Fabrication du ciment. Deuxième édition refondue et mise à jour. Un volume, grand in-8° raisin, de 550 pages, avec 186 figures. Librairie Acaïentifique et médicale, Paris. Prix: broché, 45 francs.
- Hatt, W. K.—Laboratory manual of testing materials. Second edition. 5 x 8, 177 P., illustrated, cloth. McGraw-Hill Book Co., New York.
- Horton, R. E.—Rain-fall interception. Reprinted from Monthly Weather Review, Sept., 1919. 9 x 12, 1,20 P., illustrated, Paper.
- Ibbotson, F.—The chemical analysis of steel works' materials. 6 x 9, 298 P., illustrated, cloth. Longmans, Green & Co., New York. Price: \$ 7.50.
- Kapferer, W.—Tabellen der Maximalquerkräfte und Maximalmomente durchlaufender Träger. Wilhelm Ernst & Sohn, Berlin 1920. Preis geh. M. 12.50.
- Ketchum, M. S.—The design of highway bridges of steel, timber and concrete. Second edition, rewritten. 6 x 9, 550 P., illustrated, flexible. McGraw-Hill Book Co., New York. Price: \$ 6.00.
- Kummer, W.—Die Energieverteilung für elektrische Bahnen. 158 Textseiten, 62 Abbildungen. Julius Springer, Berlin 1920. Preis geb. 22 M.
- Lévy-Salvador, M.—Aménagement des cours d'eau en vue de la production de l'énergie électrique. 5<sup>e</sup> édition revue et augmentée, 320 pages, 126 figures et 16 planches hors texte. Librairie de l'Enseignement technique. Prix: 25 francs.
- Mitchelson, A. T.—Spillways for reservoirs and canals. U. S. Department of Agriculture, Washington, D. C. 6 x 9, 40 P., illustrated, paper.
- Naef, J.—Observations hydrométriques Anisées pour 1918. Deux fascicules grand in-8°, l'un de 83 pages l'autre de 43 pages et 22 planches hors texte. En vente au Secrétariat du Service des Eaux, à Berne. Prix: 8 francs et 10 francs.
- Williams, G. S. & Hazen, A.—Hydraulic tables: The elements of gaging and the friction of water flowing in pipes, aqueducts, sewers, etc. Third edition, revised. 6 x 9, 115 P., illustrated, cloth. Thos Wiley & Sons, New York. Price: \$ 2.00.
- American Society for testing materials standards: Adopted in 1920—Philadelphia, Pa.: The Society. 6 x 9, 128 P., illustrated, paper.
- Beton-Kalender 1921.—Mit 588 Textabbildungen. Wilhelm Ernst & Sohn, Berlin 1920. Preis Kart. 20 M.

## 2

- Handbook of pipes.**—The East Jersey Pipe Company, New York. 5×7, 213 P., illustrated, paper.
- Irrigation surveys and inspections.**—Department of the Interior, Ottawa, Can. 7×10, 67 P., illustrated paper.
- National conference on concrete house construction.**—6×9, 235 P., illustrated, paper. Edited by the Secretary, Chicago Ill.: Secretary's Office, 111 West Washington St.
- Standard specification for steel railway bridges.**—Canadian Engineering Standards Association, Ottawa, Can. 6×9, 79 P., illustrated paper.
- The Columbia basin irrigation project a report.**—by Columbia Basin Survey Commission, State of Washington. 6×9, 185 P., illustrated, cloth.
- Town planning scheme for Jamshedpur.**—Report by F. C. Temple, chief town engineer, Jamshedpur, Singhbhum District, India, to the Tata Iron & Steel Co., Ltd., Bombay. (Jamshedpur Social welfare series). Boards, cloth back; 17 P., 2 folding maps.

## 内外諸雑誌主要題目

### 帝國鐵道協會會報

第二十一卷、第八號、大正九年十一月十五日。 1. 鐵及び鋼の研究。第二回（承前）本多光太郎、二十八頁及寫眞一葉。 2. 軌間の變更は不必要である。大村鈴太郎、三十頁。 3. 電車電動機の制御法及其の最近の進歩。岸敬二郎、高村甚平、八頁。

### 工學

第七卷、第十二號、大正九年十二月十日。 1. オゾン淨水法に就て。小川織三、七頁。 2. 鐵筋混擬土管に就て。（一）坂田時和。

第八卷、第一號、大正十年一月十日。 1. 神宮橋、谷井陽之助、三頁。 2. 英國に於ける水力問題。平野正雄、七頁。 3. オゾン淨水法に就て。（二）小川織三、七頁。 4. 蒸汽掘鑿機。野澤房敬、四頁。 5. 鐵筋混擬土管に就て（二）坂田時和、八頁。 6. 白鳥橋改築工事報告。（一）佐竹昌志、九頁。 7. 漬溉用水渠の斷面。奥村孝藏、二頁。

### 工學會誌

第四百四十三卷、大正九年十一月廿九日。 1. 鐵及び鋼の研究。本多光太郎、二十八頁及寫眞一葉。

### 工業雑誌

第五十三卷、第六百八十八號、大正九年十一月二十日。 1. 矩形平板が平等荷物を承けて周邊固定或は支持せられたるときの強さ。（一）井口在屋、五頁。

第五十三卷、第六百八十九號、大正九年十二月五日。 1. 矩形平板が平等荷物を承けて周邊固定或は支持せられたるときの強さ。（二）井口在屋、四頁。

### Annales des Ponts et Chaussées Partie Technique.

90<sup>e</sup> Année—Tome L.V. Vol. II. Mars-Avril, 1921. 1. L'évolution des grandes digues pour lacs artificiels. Par M. Luigi Luiggi et M. Jacquinot. 37 p.

90<sup>e</sup> Année—Tome LVI. Vol. III. Mai-Juin, 1920. 1. Avant-bec mobile pour diminuer la résis-

- tance des péniches à la traction. Par M. Vidal. 12 p. 2. Compte rendu des données géologiques et hydrologiques recueillies ou cours des recherches d'eau potable effectuées en Lorraine par les Armées françaises. Par M. Thiébaut. 29 p.
- 90<sup>e</sup> Année—Tome LVII. Vol. IV. Juillet-Août, 1920. 1. Le port de pêche moderne, sa réalisation à Ymuiden Par MM. Casanova et Pélissonnier. 18 p.

### Annales des Travaux Publics de Belgique.

- Tome XXI.—2<sup>e</sup> Fascicule. Avril, 1920. 1. Note sur la fabrication des briques du pays et des tuiles de la région de Boom. Par L. Bonnet. 46 p. 2. Étude sur les fondations par empattements (béton, béton-armé, maçonnerie, etc.) Par Aimé Willame 25 p.
- Tome XXI.—3<sup>e</sup> Fascicule. Juin, 1920. 1. Étude sur les fondations par empattements (béton, béton-armé, maçonnerie, etc.) Par Aimé Willame. 53 p. 2. Les « gratté ciel » de New York : le « Woolworth » building. 51 p.
- Tome XXI.—4<sup>e</sup> Fascicule. Août, 1920. 1. La manœuvre électromécanique des ponts mobiles. Par Joseph Chanteux. 80 p. 2. Les travaux de fermeture d'une brèche dans la digue de la rive droite de l'Escaut maritime, à environ un kilomètre en aval du passage d'eau d'Appels. Par M. J. Haché. 6 p.
- Tome XXI.—5<sup>e</sup> Fascicule. Octobre, 1920. 1. La technique et l'industrie de l'Allemagne pendant la guerre. Par M. C. Lemaire. 72 p.

### Bulletin of the International Railway Association

- Vol. II. No. 9. September, 1920. 1. On the question of special steels (subject III for discussion at the ninth congress of the International Railway Association). By Mr. Sand. 8 p. 2. The railway system of Jugo-Slavia. By Captain Gordon Gordon-Smith. 8 p.

### Canadian Engineer

- Vol. 39. No. 13. Sept. 23, 1920. 1. Power development on Nepisiguit River. By James Dick. 4 p.
- Vol. 39. No. 14. Sept. 30, 1920. 1. Port of Vancouver and proposed development. By W. G. Swan. 3½ p. 2. Quicksand: Its nature, behavior and control. By C. R. Gow. 4 p.
- Vol. 39. No. 15. Oct. 7, 1920. 1. Sewage disposal at Saskatchewan penitentiary. By R. F. Uniacke. 4 p.
- Vol. 39. No. 16. Oct. 14, 1920. 1. Larger ships, deeper harbors, better dredges. By A. W. Robinson. 4 p. 2. New specification for net section of riveted tension members. By C. R. Young. 1 p.
- Vol. 39. No. 17. Oct. 21, 1920. 1. New steel railway bridge specification. 3 p. 2. Regulation of level of Lake Superior. By L. C. Sabin. 6 p. 3. Use of gunite in preservation of concrete structures affected by sea-water action. By B. C. Collier. 2½ p. 4. Air pockets and vacuum troubles in gravity water mains. By J. W. Ledoux. 1½ p.
- Vol. 39. No. 18. Oct. 28, 1920. 1. Relative elastic strengths of steel. 4 p. 2. Hydraulic installation of Queenston-Chippawa power development. By M. V. Sauer. 2 p.
- Vol. 39. No. 19. Nov. 4, 1920. 1. Characteristics of long-span suspension bridges. By C. R. Young. 3½ p.
- Vol. 39. No. 20. Nov. 11, 1920. 1. Determining true net sections of riveted tension members by diagrams. By C. R. Young. 1 p.
- Vol. 39. No. 21. Nov. 18, 1920. 1. Safe loads and deflections for "gunite" slabs. 5 p.
- Vol. 39. No. 22. Nov. 25, 1920. 1. Ice diversion for St. Lawrence River Power Co. By B. F. Great. 8 p. 2. Advantages of improved French River Waterway. By A. Langlois. 2½ p.

- Vol. 39. No. 23. Dec. 2, 1920. 1. Reduction of girder and column live loads. By C. R. Young. 4½p.
- Vol. 39. No. 25. Dec. 16, 1920. 1. Twin Falls development on Abitibi River. By Col H. L. Trotter. 4½p.
- Vol. 39. No. 26. Dec. 23, 1920. 1. Bond stresses in reinforced concrete footings. By I. F. Morrison. 1½p. 2. Chicago drainage canal. By F. C. Shenchon. 1½p.

## Concrete and Constructional Engineering

- Vol. XV. No. 7. July, 1920. 1. Pressure of concrete against forms. By E.B. Smith. 4p. 2. Concrete roads at Newbury-Newbury housing scheme. 4p. 3. Renewal of Summerhill Bridge, Dublin, with reinforced concrete. 3p. 4. German fire tests on reinforced concrete houses. By Dr. Arthur Holmes 5p.
- Vol. XV. No. 8. August, 1920. 1. Whitby Harbour extension works. By James Mitchell. 13p. 2. The stability of thin walls, and heat transmission through thin walls. 3p. 3. Specification for cement concrete buildings. 3p. 4. Recent British patents relating to concrete. 6p.
- Vol. XV. No. 9. September, 1920. 1. Reinforced concrete retaining walls without buttresses. By E. R. Matthews. 4p. 2. The economical design of reinforced concrete foundation slabs. By Charles S. Higgins. 3p.
- Vol. XV. No. 10. October, 1920. 1. Quay wall in reinforced concrete piles and sheet piles at Kenitra. 5p. 2. The largest European concrete vessel. 5p.
- Vol. XV. No. 11. December, 1920. 1. An interesting cooling tower tank. Dalmarnock power station. 5p. 2. Problems in the theory of construction: Calculation for continuous beams with third-loading. 5p. 3. Effect of fineness of cement. By Duff A. Abrams. 9p. 4. Concrete piles. 3p.

## Electric Railway Journal

- Vol. 56. No. 14. Oct. 2, 1920. 1. Functions of rapid transit lines. By Henry M. Brinkerhoff. 6p. 2. The possibilities of interurban railroads. By Britton I. Budd. 5p. 3. The scientific arrangement of schedules. By Edward Dann. 5p. 4. Surface transportation in congested districts. By John A. Beeler. 5p. 5. Increasing schedule speed on city railways. By Victor B. Phillips. 6p. 6. Relieving London's congestion. 5p.
- Vol. 56. No. 15. Oct. 9, 1920. 1. Operation of the Kansas City railway analyzed. 4p. 2. Are you ready for the coming winter? 5½p.
- Vol. 56. No. 19. Nov. 6, 1920. 1. Rerouting plan on Kansas City railways to save \$ 620,000 4½p. 2. Situation, from an economic viewpoint, of German tramways. 2½p. 3. Design of stations for rapid transit railways. 2p.
- Vol. 56. No. 20. Nov. 13, 1920. 1. How the Zone fare has made good at San Diego. 4p.
- Vol. 56. No. 21. Nov. 20, 1920. 1. Substation layout of the Southern Pacific Company in Oregon. By Paul Lebenbaum.
- Vol. 56. No. 22. Nov. 27, 1920. 1. Traction problems in Spokane, Wash., are being solved. 5p. 2. Transportation for greater New York. 11p. 3. Compromise joints in electric railway trackwork. By R. C. Cram. 3½p.
- Vol. 56. No. 23. Dec. 4, 1920. 1. The possibilities of trackless trolley operation. By H. L. Andrews. 4p.
- Vol. 56. No. 25. Dec. 18, 1920. 1. Maintaining track under public trustees. By Frank B. Walker. 4p.

## Engineering

- Vol. CX. No. 2855. Sept. 17, 1920. 1. Hydraulic-fill dams. By Allen Hazen. 2p.

- Vol. CX. No. 2859. Oct. 15, 1920. 1. Ferro-concrete pit-head frame at Bentley Colliery, Doncaster. 2½p. with 1 plate. 2. 25-ton electric luffing crane. 2½p.
- Vol. CX. No. 2862. Nov. 5, 1920. 1. The sealing of water horizons in oil wells by means of the cementing process. By A. A. Downs. 3p.
- Vol. CX. No. 2864. Nov. 19, 1920. 1. Involute teeth. By Richard Gardner. 1p.
- Vol. CX. No. 2865. Nov. 26, 1920. 1. National physical laboratory traction dynamometer for agricultural tractors. By J. H. Hyde. 2p. 2. 150 ton floating crane for the United States Navy. 1½p. with 1 plate. 3. Sterilisation of water by chlorinegas. By Captain J. Stanley Arthur. 4p.

## Engineering News-Record

- Vol. 85. No. 13. Sept. 23, 1920. 1. Developing an additional 100,000 horsepower at Niagara. 2p. 2. Hydraulic fill at the Miami conservancy dams. III. By C. S. Hill. 4p. 3. Concrete cantilever construction in Chicago garage. 2p.
- Vol. 85. No. 14. Sept. 30, 1920. 1. Old earth-pressure theories and new test results. By Dr. Charles Terzaghi. 6p. 2. Using 6 in. bank run aggregate on Stevenson dam. 2½p. 3. Design of the 37,500-Hp. turbines at Niagara. 2½p.
- Vol. 85. No. 15. Oct. 7, 1920. 1. Analysis of the continuous three-column foundation. By Charles A. Ellis. 3p. 2. Building the American Niagara power extension. 7p.
- Vol. 85. No. 16. Oct. 14, 1920. 1. New Chicago freight terminal of Alton Railroad. 4p. 2. Design of the New Canadian Niagara power project. 6p. 3. Rapid transit plan for New York proposes 830 miles of new track. 3½p.
- Vol. 85. No. 17. Oct. 21, 1920. 1. Cellular flat slabs lighten concrete building. By Orren S. Hussey. 5p. 2. Engineering features of the St. Lawrence waterway. 3p. 3. Report on a tentative zoning plan for Lakewood, Ohio. By Robert H. Whitten. 3p.
- Vol. 85. No. 19. Nov. 4, 1920. 1. Sewage pumping plants for Chicago suburban districts. By Langdon Pearse. 4½p. 2. Planning the future of the Cleveland water supply. By A. V. Ruggles. 4p. 3. Rapid transit subway station design. Part II. By Olaf A. Nilsson. 6p. 4. Heavy spans to be rolled and jacked in difficult bridge reconstruction. By Philip G. Lang, Jr. 3p.
- Vol. 85. No. 20. Nov. 11, 1920. 1. Trend of highway development—A survey. 3p. 2. Sixty-year-old bridge in a New Jersey village. By R. Fleming. 2½p. 3. Distribution of Snake River water during greatest drought. 4½p. 4. Filter underdrain, sand-bed and Washwater experience. 5½p.
- Vol. 85. No. 21. Nov. 18, 1920. 1. Army engineers built new highway bridge across Potomac 6p. 2. Recent experiences with wood block pavement. 1½p. 3. Effect of fire on concrete in warehouse at Galveston. 1p. 4. Filter underdrain, sand bed and wash-water experience. 3p. 5. Nine Years' operation results of the municipal garbage reduction works at Columbus, Ohio. By James W. Follin. 3½p. 6. Improve old freight yard for better operation. 3½p.
- Vol. 85. No. 22. Nov. 25, 1920. 1. Making the final 15-ft. raise of the Spaulding dam. By I. C. Steele. 4½p. 2. Pile driving results with steam and drop hammers. Compared. 1½p. 3. The hydraulic jump and critical depth in the design of hydraulic structures. By Julian Hinds. 6½p. 4. Placing concrete membrane lining in Heron Hill reservoir. 2½p. 5. Enlarging the facilities of the harbor of Marseilles. By Thorndike Saville. 4p.
- Vol. 85. No. 23. Dec. 2, 1920. 1. Chicago, Milwaukee & St. Paul Railway electrification. 3½p. 2. Garbage disposal in the district of Columbi. By F. S. Besson. 4p. 3. The bigelow boulevard slide at Pittsburgh. By Maurice R. Scharff. 5p. 4. Surface shrinkage or rapid filter sand bed. By Weston Gavett. 2½p. 5. Improvements on a State irrigation project in Utah. By J. C. Ullrich. 5p. 6. Cement plaster lining for wood irrigation flumes. By Everett N. Bryan. 2p. 7. The Illinois State waterway for barge navigation. 4p.

## Engineering World

- Vol. 17. No. 4. October, 1920. 1. How Lincoln Park commissioners make land. By W. T. Christine. 4p. 2. Construction work by cement gun methods. By Arthur J. White. 6p.

**Vol. 17. No. 5.** November, 1920. 1. Drainage work in Yakima county, Washington. By W. A. Scott. 1½p. 2. Highway bridge across White Salmon River. 1p. 3. Permanent and attractive highway bridges. 2p. 4. From the sand dunes of Indiana to the foundry. By W. T. Christine. 4p.

**Vol. 17. No. 6.** December, 1920. 1. Electric pumping and wood-pipe for Pasco irrigation. By W. A. Scott. 2p. 2. An engineer's impressions of Japan. By Dana M. Wood. 3½p. 3. Concrete the standard track construction. 2p. 4. Chicago-world's city health standard. By William Hale Thompson. 3p. 5. Wood pipe line and power plant in Rainier National Park. 1p.

### La Houille Blanche

**19<sup>e</sup> Année. No. 45-46.** Sept.-Oct., 1920. 1. Quelques récents travaux d'irrigation (suite) Par J. Lemarchands. 5p. 2. Méthode graphique pour le Calcul des Pylônes métalliques. Par R. Valensi. 3p.

### Le Génie Civil

**Tome LXXVII. No. 12.** 18 Sept., 1920. 1. La construction des barrages en terre et en maçonnerie. 3p.

**Tome LXXVII. No. 13.** 25 Sept., 1920. 1. Le frigorifique à poissons de Lorient (Morbihan) Par Verrière et Tayon. 6p. with 1 plate. 2. Nouveau projet d'aménagement du Haut-Rhône Par dérivation. Sa comparaison avec les projets par barrages. 5p.

**Tome LXXVII. No. 14.** 2 Oct. 1920. 1. Les progrès récents des méthodes de contrôle des produits métallurgiques. Par Léon Guillet. 5½p.

**Tome LXXVII. No. 15.** 9 Oct., 1920. 1. Les progrès récents des méthodes de contrôle des produits métallurgiques. Par Leon Guillet. 2½p.

**Tome LXXVII. No. 16.** 16 Oct., 1920. 1. Automotrices pétrolières à moteur Diesel, des chemins de fer suédois. 4½p.

**Tome LXXVII. No. 19.** 6 Nov., 1920. 1. Grue flottante « Mammoth », de 200 tonnes, des Chantiers Gusto, de Schiedam (Hollande). 2½p. 2. L'Exposition de machines-outils de l'Olympia, à Londres (4-25 septembre 1920). 3p.

**Tome LXXVII. No. 20.** 13 Nov., 1920. 1. Les destructions systématiques, par les Allemands, des usines métallurgiques du Nord et de l'Est de la France. 7p. 2. Le béton armé de bois. 2p.

**Tome LXXVII. No. 21.** 20 Nov., 1920. 1. Le revêtement de la route moderne. Le problème technique et financier de la restauration des routes françaises. Par G. Dumont et L. Auscher. 4p. 2. Étude didactique des transporteurs aériens sur câbles. Par Giulio Ceretti. 3p.

**Tome LXXVII. No. 22.** 27 Nov., 1920. 1. Viafuge métallique de 2561 mètres à Sunbrsk, sur la Volga, pour le chemin de fer Volga-Bougoulma (Russie). Par Stanislas Kozierski. 5½p.

**Tome LXXVII. No. 23.** 4 Déc., 1920. 1. Navires pétroliers de 2000 tonneaux, en béton armé, construits en éléments cylindriques moulés. Par P. Calfas. 4p. 2. Le nouveau pont-route suspendu sur le Rhin, à Cologne. 1½p.

### Public Works

**Vol. 49. No. 14.** Oct. 2, 1920. 1. Earth-moving machinery in Broux parkway. 5½p.

**Vol. 49. No. 15.** Oct. 9, 1920. 1. Garbage incinerator at White Plains. 1½p.

**Vol. 49. No. 16.** Oct. 16, 1920. 1. Paving North Broad Street, Philadelphia. 1½p. 2. Casting and steaming reinforced pipe. 2p.

**Vol. 49. No. 17.** Oct. 23, 1920. 1. Gravel road construction and surface treatment. By P. P. Sharples. 4½p.

**Vol. 49. No. 18.** Oct. 30, 1920. 1. Fitchburg sewage treatment plant. 4½p. 2. Huntington-Cold spring harbor road construction. 3p. 3. Norfolk emergency water connection. 2½p.

**Vol. 49. No. 19.** Nov. 6, 1920. 1. Snow removal tests. 3p. 2. Selecting a type of road surface. 2p. 3. Record output for central concrete mixing plant. 2½p.

**Vol. 49. No. 20.** Nov. 13, 1920. 1. Macadam base for bituminous pavements. 3p. 2. Discussion of macadam base for bituminous pavements. 1½p. 3. Studies of flood discharge of Pine creek. By John B. Hawley.

**Vol. 49. No. 21.** Nov. 20, 1920. 1. Concrete lining for cast iron tunnel shells. 2p. 2. New sewage treatment plant of Okmulgee. By A. H. Kindrick. 2½p. 3. The St. Louis sewer system. By W. W. Horner. 3p.

**Vol. 49. No. 22.** Nov. 27, 1920. 1. Constructing a state road in North Carolina. By W. A. Hardenbergh. 2p.

**Vol. 49. No. 23.** Dec. 4, 1920. 1. Ralph avenue sewer, Brooklyn. 5p. 2. Reports and records of Delaware highways. 4p.

**Vol. 49. No. 24.** Dec. 11, 1920. 1. Constructing asphalt block pavement on Bronx parkway. 3½p. 2. Sub-surface sewage disposal. By W. A. Hardenbergh. 4p.

**Vol. 49. No. 25.** Dec. 18, 1920. 1. Repairing Green avenue sewer, Brooklyn. 2½p. 2. Activated sludge experiments in England. 1½p.

### Railway Age

**Vol. 69. No. 12.** Sept. 17, 1920. 1. Gas pocket causes trouble in pneumatic foundation. By J. E. Bebb and L. B. Alexander. 3p. 2. The American equipped British railways of Peru. 2½p.

**Vol. 69. No. 14.** Oct. 1, 1920. 1. The Union Pacific overhauls its engine terminals. 4½p.

**Vol. 69. No. 15.** Oct. 8, 1920. 1. Lehigh Valley plans comprehensive terminal. 3p.

**Vol. 69. No. 16.** Oct. 15, 1920. 1. Some impressions of South American railways. 2½p. 2. Improvements in New Pullman sleepers. 3½p.

**Vol. 69. No. 18.** Oct. 29, 1920. 1. Meter gage railways standard in Bolivia. By John P. Risque. 2½p. 2. Advantages of steam and electric locomotives 3p.

**Vol. 69. No. 20.** Nov. 12, 1920. 1. Railroad completes Unique River bank protection. By W. C. Curd. 2½p.

**Vol. 69. No. 21.** Nov. 19, 1920. 1. Philadelphia & reading to build 48-arch bridge. 2½p.

**Vol. 69. No. 22.** Nov. 26, 1920. 1. Operation of British and U. S. railways compared. 2p.

**Vol. 69. No. 24.** Dec. 10, 1920. 1. Co-ordination of railway and other transportation. 6p. 2. Modernizing rail laying on the Lehigh Valley. 3½p.

### Railway Maintenance Engineer

**Vol. 16. No. 10.** October, 1920. 1. English track maintenance begets interesting methods. 2½p.

**Vol. 16. No. 11.** November, 1920. 1. How cross ties are selected for renewal. 3p.

**Vol. 16. No. 12.** December, 1920. 1. The development of snow fighting equipment. By W. H. Winterrowd. 4½p. 2. A resume of ideas on the creeping of rails. 2p. 3. Locomotive cranes speed up rail laying. 3p. 4. A centralized organization for feeding men Hunter Mc Donald. 4p.

### Schweizerische Bauzeitung

**Band LXXVI. No. 11.** 11. Sept., 1920. 1. Soziale Stellung und wirtschaftliche Aufgaben der Technik. von C. Andreae. 3p. 2. Vom Bebauungsplan-Wettbewerb Gross-Zürich. 5p.

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- 新刊紹介 内外諸雑誌主要題目**
- Band LXXVI. No. 12.** 18. Sept., 1920. 1. Die Pumpen-Anlage des hydraulischen Kraftakkumulierungswerkes Viverone. Von G. Müller. 4p. 2. Vom Bebauungsplan-Wettbewerb Gross-Zürich. 5p.
- Band LXXVI. No. 13.** 25. Sept., 1920. 1. Zur Festigkeitslehre. Von L. Potterat. 2½p. 2. Die Pumpen-Anlage des hydraulischen Kraftakkumulierungswerkes Viverone. Von G. Müller. 3p.
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