

新刊紹介

土木學會誌 第二卷第六號 大正五年十二月

- Agg, T. R.—The construction of roads and pavements. 432 P., 116 illustrations, 6×9, cloth. McGraw-Hill Book Co., New York. Price: \$ 3.00 net. (丸善賣價: 6.60圓)
- Heller, A. H.—Stresses in structures. Third edition. 374 P., illustrated, 6×9, cloth. John Wiley & Sons, New York. Price: \$ 2.75 net.
- Pierce, V. M.—Brick roads. Washington, D. C.: United States Department of Agriculture Bulletin No. 373. 40 P., illustrated, 6×9, paper. Washington, Government Printing Office.
- Reed, W. G.—Rainfall data of Berkeley, California. University of California Publications in Engineering Nos. 5 and 6. 13 P. and 34 P., 7×10 $\frac{1}{2}$, paper. Berkeley, Cal., University of California Press.
- Sprague, E. H.—The stability of arches. 138 P., illustrated, 5×7, cloth. Scott, Greenwood & Son, London. Price: \$ 1.25 net.
- Zimmer, G. F.—The mechanical handling and storing of material. 752 P., 1044 illustrations, 7×10, cloth. D. Van Nostrand Co., New York. Price: \$ 12.50 net.
- Concrete linings for irrigation canals. 15 P., illustrated, 6×9, paper. Chicago, Portland Cement Association.
- Concrete swimming and wading pools and how to built them. 18 P., illustrated, 6×9, paper. Chicago, Portland Cement Association.
- Report on pipe-line transportation of petroleum. By U. S. Federal Trade Commission. 467 P., illustrated, 6×9, paper, Washington, Government Printing Office.
- Report of the Reclamation Board of California, 1916. 36 P., and maps, 5 $\frac{1}{2}$ ×9, paper. California, State Printing Office.

新刊紹介
内外諸雜誌主要題目

内外諸雜誌主要題目

工學

第三卷 第十號(第三十號) 大正五年十月十日

1. 市街降雨排水用ぼんぶノ設計 八頁
2. 砂防工一般 八頁
3. 單複鐵筋混凝土矩形桁抵抗率率表 八頁
4. 請負ノ研究 (二十七) 三頁

第三卷 第十一號(第三十一號) 大正五年十一月十日

1. すたていや測量ノ煩雜ナル内業ヲ省クヘキ新装置 八頁
2. 請負ノ研究 (二十八) 三頁

八七

工學會誌

第三百九十八卷 大正五年九月二十日

1. 東京附近鐵道線路ニ於ケル電車運轉 (承前) 十七頁半表一枚

第三百九十九卷 大正五年十月二十日

- 1. 東京附近鐵道線路ニ於ケル電車運轉 (承前) 六頁

工業雜誌

第四十五卷 第五百八十八號 大正五年九月二十五日

- 1. 煉瓦ノ風化物ニ就テ 七頁半

第四十五卷 第五百八十九號 大正五年十月十日

- 1. 煉瓦ノ風化物ニ就テ 六頁半

帝國鐵道協會會報

第十七卷 第六號 大正五年九月二十五日

- 1. 旅客停車場ニ就テ 三十五頁半
- 2. 橋梁架設用機械トシテノてりっくかー及ろこもちぶくれ
-ノノ價值 二十七頁他ニ寫真三葉圖面三葉

第十七卷 第七號 大正五年十月二十五日

- 1. 東京附近鐵道線路ニ於ケル電車運轉ニ關スル設備 (承前)
四十三頁他ニ圖面十一葉

ANNALES DES PONTS ET CHAUSSÉES PARTIE TECHNIQUE

Tome XXIII. Vol. V. Sept.—Oct., 1914.

- 1. Notice sur l'accident de la digue de Charmes (Octobre 1909). 120 p.

BULLETIN OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION

Vol. 18. No. 187. July, 1916.

- 1. How to calculate fuel consumption. 24 p.
- 2. Power input for movable bridges. 6 p.
- 3. The science of the beautiful in the familiar things of life. 16 p.

Vol. 18. No. 188. August, 1916.

- 1. Transverse fissure rail 51051. 8 p.
- 2. Rail failure statistics for 1915. 32 p.
- 3. Segregated streaks in steel rails. 24 p.
- 4. Test of rail joints. 75 p.

CASSIER'S ENGINEERING MONTHLY

Vol. 50. No. 3. September, 1916.

- 1. The coaling of ships. 23 p.

CEMENT WORLD

Vol. X. No. 6. Sept. 15, 1916.

- 1. Design and construction of special highway drainage structures. 2 p.

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2. Concrete subway with three distinct types of deck construction. 6 p.
3. Concrete roads and pavements. 7 p.

CONCRETE AND CONSTRUCTIONAL ENGINEERING

- Vol. XI. No. 9. September, 1916.
1. Concrete roads in America. 7 p.
 2. Illustrations of reinforced concrete water towers. 6 p.
 3. Researches on reinforced concrete beams. 8 p.
 4. Waterworks reservoirs. 7 p.

ELECTRIC RAILWAY JOURNAL

- Vol. XLVIII. No. 10. Sept. 2, 1916.
1. Signals on the Scranton & Binghamton Railway system. 4 p.
 2. Present and future development of interurban railways. 4 p.
 3. The fundamentals of power saving. 3 p.
- Vol. XLVIII. No. 11. Sept. 9, 1916.
1. Methods of handling track work in Kansas City. 7 p.
- Vol. XLVIII. No. 12. Sept. 16, 1916.
1. Unballasted track effects lower maintenance cost. 3 p.
- Vol. XLVIII. No. 13. Sept. 23, 1916.
1. Pneumatic machines reduce size of tamping gangs. 3 p.
- Vol. XLVIII. No. 15. Oct. 7, 1916.
1. Observations of a traveling track specialist. 2 p.

ENGINEERING

- Vol. CII. No. 2641. Aug. 11, 1916.
1. Design of a railroad pontoon bridge. 3 p.
- Vol. CII. No. 2642. Aug. 18, 1916.
1. The case for machinery on railway construction in China. 2½ p.
- Vol. CII. No. 2644. Sept. 1, 1916.
1. Pile-drawing. 3 p.
- Vol. CII. No. 2645. Sept. 8, 1916.
1. Limit gages. 2½ p.
- Vol. CII. No. 2646. Sept. 15, 1916.
1. Brackets on stanchions. 1½ p.
 2. High-powered locomotives for the Pennsylvania Railroad. 4 p.
 3. Quebec Bridge disaster. 2 p.
 4. Stress distribution in engineering materials. 2 p.
- Vol. CII. No. 2648. Sept. 29, 1916.
1. Machine for breaking and punching rails. 1 p.
 2. The accident to the New Quebec Bridge. 1 p.

ENGINEERING NEWS

- Vol. 76. No. 8. Aug. 24, 1916.
1. Rock-tunneling machine using pneumatic-hammer tools. 2 p.
 2. River diversion and flood control in Missouri. 4 p.
- Vol. 76. No. 9. Aug. 31, 1916.
1. Earth dam with sheet-steel diaphragm and cutoff. 2½ p.

2. Condition of iron in the old Keokuk Bridge. 3½ p.
3. Quebec suspended-span hoisting details completed. 6 p.
- Vol. 76. No. 10. Sept. 7, 1916.
1. Chlorinating the water-supply of greater New York. 3 p.
- Vol. 76. No. 11. Sept. 14, 1916.
1. Construction and maintenance of roads in the Arid West. 5 p.
2. Effect of sewer gas on concrete in a Chicago sewer. 2½ p.
3. Timber and gravel coffer-dams on the Troy Dam. 3½ p.
4. Countersunk rivets. 2 p.
5. Erection of Quebec Bridge suspended span. 3 p.
6. Collapse of the Quebec Bridge suspended span. 5 p.
- Vol. 76. No. 12. Sept. 21, 1916.
1. Steel sheetpile coffer-dams for Troy lock and dam. 7½ p.
2. San Francisco shore protection near completion. 1½ p.
3. Shallow railway floor on canal bascule bridge. 2 p.
4. The full evidence of the fall of the Quebec Bridge span. 4 p.
- Vol. 76. No. 13. Sept. 28, 1916.
1. Types of dump-car used on construction work—I. 4½ p.
2. Reinforced-concrete pile used for railway culverts. 2 p.
- Vol. 76. No. 14. Oct. 5, 1916.
1. Capital terraces at last made waterproof. 5 p.
2. Types of dump-cars used on construction work—II. 5 p.
3. Computing the stresses in the Quebec rocker casting. 4 p.
4. Nitrogen from sewage sludge—Plain and activated. 2 p.

ENGINEERING RECORD

- Vol. 74. No. 8. Aug. 19, 1916.
1. Three million yards being pumped to build Calaveras Dam, 240-foot high, by hydraulic method. 3 p.
2. Theory of displacements applied to analysis of suspension bridges. 2 p.
- Vol. 74. No. 9. Aug. 26, 1916.
1. Elevated railway of domed-arch construction a strong contrast to steel structure. 2½ p.
2. Long-span concrete arched bents support roof of Chicago Hebrew Institute. 2 p.
3. Upstream face of a rockfill dam sealed with sliding concrete apron. 2½ p.
- Vol. 74. No. 11. Sept. 9, 1916.
1. Notched steel brackets aid placing of hoop reinforcement for concrete reservoir. 3 p.
2. Equipment devised for testing water meters quickly in the field. 2½ p.
3. Special devices installed to improve operation of new mechanical filters. 2 p.
4. Construct dams by hydraulic method with minimum of cost, labor and equipment. 1½ p.
- Vol. 74. No. 12. Sept. 16, 1916.
1. Little plant required to complete 4000-foot concrete railroad bridge. 3 p.
2. Suspended span of Quebec Bridge falls during erection. 4 p.
- Vol. 74. No. 13. Sept. 23, 1916.
1. Breakage of casting of rocker-joint bearing responsible for Quebec Bridge disaster. 2 p.

2. Revolutionary method used to float and hoist center span of Quebec Bridge. 5 p.
 3. Open scenic highway over continental divide in Southwestern Colorado. 2 p.
 4. Hopple Street Viaduct, Cincinnati, is built with cantilever beams in arch form. 3 1/2 p.
- Vol. 74. No. 14. Sept. 30, 1916.
1. In monolithic pavements in Vermilion County, Illinois, brick are laid directly on concrete base. 3 p.
 2. Careful construction to make large dam for Youngstown, Ohio, watertight. 2 1/2 p.
- Vol. 74. No. 15. Oct. 7, 1916.
1. What was the cause of the initial failure at the Quebec Bridge? 2 p.
 2. Distribution of traffic on a rectangular system of roads analyzed. 2 p.
 3. Nitrogen recovery from sewage sludge reaches commercially practicable stage. 1 1/2 p.

INDIAN ENGINEERING

- Vol. LX. No. 4. July 22, 1916.
1. The processes of manufacture of wrought iron and steel tubes. 2 1/2 p.
- Vol. LX. No. 7. Aug. 12, 1916.
1. The processes of manufacture of wrought iron and steel tubes. 3 p.

JOURNAL OF THE AMERICAN WATER WORKS ASSOCIATION

- Vol. 3. No. 2. June, 1916.
1. The typhoid toll. 78 p.
 2. The latest method of sewage treatment. 19 p.
 3. Experience with a card consumer's ledger. 10 p.
 4. The use of oil engines for pumping. 9 p.
 5. The water supplies of interstate common carriers on the Great Lakes. 21 p.
 6. Pressure filters. 10 p.
 7. Erosion of watersheds and its prevention. 6 p.
 8. Water softening by filtration through artificial zeolite. 9 p.
 9. Some aspects of chlorination. 11 p.
 10. The prevention of water waste on railroads. 13 p.
 11. Tropical water supplies, with special reference to the Canal Zone and to Vera Cruz, Mexico. 13 p.
 12. Pumping machinery. 11 p.
 13. Tests of loss of head in strainers, orifices and sand. 10 p.
 14. City tunnel of the Catskill Aqueduct. 15 p.
 15. Interpretation of water works accounts. 28 p.
 16. The selection, installation and test of a 1,000,000 gallon motor driven centrifugal pump. 21 p.
 17. Copper sulphate treatment of St. Paul, Minnesota, water supply. 40 p.
 18. Water works reservoirs. 31 p.

JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

Vol. XXI. No. 7. September, 1916.

- 1. The operating machinery of the Willamette Draw-bridge, near Portland, Oregon. 36 p.

LE GÉNIE CIVIL

Tome LXIX. No. 7. 12 Août, 1916.

- 1. Le transbordeur funiculaire à voyageurs du Niagara (Canada). 3 p.
- 2. Flexion des rails de tramway. 2 p.

Tome LXIX. No. 8. 19 Août, 1916.

- 1. Les ponts militaires pour l'établissement de passages provisoires. Ponts métalliques démontables. 3 p.

Tome LXIX. No. 9. 26 Août, 1916.

- 1. Importance de l'alésage des trous de rivets dans la construction métallique. 3 p.

Tome LXIX. No. 10. 2 Sept., 1916.

- 1. Le port de Bordeaux. Les installations maritimes de la rive droite de la Garonne à Bordeaux et le nouveau port de Bassens. 6 p.

Tome LXIX. No. 11. 9 Sept., 1916.

- 1. Nouveau pont en béton armé sur le Mississippi, à Minneapolis. 4½ p.

Tome LXIX. No. 12. 16 Sept., 1916.

- 1. Les ports français et la guerre: Bayonne. 5½ p.

Tome LXIX. No. 13. 23 Sept., 1916.

- 1. Les barrages et l'usine hydro-électrique d'Aelfkarleby. (Suède). 5p.

MUNICIPAL JOURNAL

Vol. XLI. No. 9. Aug. 31, 1916.

- 1. Sealing Seattle's Reservoirs. 4 p.

Vol. XLI. No. 10. Sept. 7, 1916.

- 1. Sidewalks and sidewalk construction. 3 p.

Vol. XLI. No. 11. Sept. 14, 1916.

- 1. Cracks in pavement foundations. 1 p.
- 2. Sidewalk obstructions. 3 p.

Vol. XLI. No. 12. Sept. 21, 1916.

- 1. Steel sheet piles. 3½ p.
- 2. Planning for future traffic on trunk highways. 2 p.

Vol. XLI. No. 13. Sept. 28, 1916.

- 1. Steel sheet piling. 2 p.

Vol. XLI. No. 14. Oct. 5, 1916.

- 1. Bituminous macadam and bituminous concrete pavements. 6 p.
- 2. Recent developments in brick pavements. 2 p.
- 3. Bituminous wearing surface for old macadam. 7 p.

Vol. XLI. No. 15. Oct. 12, 1916.

- 1. Repaving in Cincinnati. 2 p.

新刊 船小 内外諸雜誌主要題目

PROFESSIONAL MEMOIRS
CORPS OF ENGINEERS, UNITED STATES ARMY AND
ENGINEER DEPARTMENT AT LARGE

Vol. VIII. No. 41. September—October, 1916.

1. Service and guard gates for third lock at St. Marys Fall Canal. 34 p.
2. Breakwater at Sandy Bay, Cape Ann, Massachusetts. 21 p.
3. The cofferdam at lock No. 2, Cape Fear River, North Carolina. 14 p.
4. The United States seagoing dredge Col. P. S. Michie. 27 p.
5. Concrete wharf exposed to sea water and wave action at Fort Williams, Maine. 8 p.

RAILWAY AGE GAZETTE

Vol. 61. No. 8. Aug. 25, 1916.

1. Gasolene-driven car ferry. 1½ p.
2. Initial strains in rails. 2 p.
3. A new type of concrete coaling station. 2 p.

Vol. 61. No. 9. Sept. 1, 1916.

1. New Buffalo, Rochester & Pittsburgh Dock at Buffalo. 1½ p.

Vol. 61. No. 10. Sept. 8, 1916.

1. Foundation work on the Metropolis Bridge. 3½ p.
2. Light signals on 440 miles of road. 1 p.

Vol. 61. No. 11. Sept. 15, 1916.

1. New Lehigh Valley Terminal at Buffalo. 5 p.

Vol. 61. No. 12. Sept. 22, 1916.

1. The cause of the Quebec Bridge disaster. 5½ p.
2. Railway Signal Association's annual meeting. 3 p.

Vol. 61. No. 13. Sept. 29, 1916.

1. A large reinforced concrete coaling plant. 3 p.

Vol. 61. No. 15. Oct. 13, 1916.

1. Terminal signalling with 45-seconds headway. 2½ p.
2. Railway Fire Protection Association. 2 p.
3. New Mississippi River bridge at Memphis. 5 p.

RAILWAY GAZETTE

Vol. XXV. No. 6. Aug. 11, 1916.

1. The railway lines of Syria and Palestine. 4 p.

Vol. XXV. No. 7. Aug. 18, 1916.

1. New express passenger and goods locomotives for the French State Railways. 8 p.

Vol. XXV. No. 8. Aug. 25, 1916.

1. All electric signalling at Adelaide, South Australia. 2½ p.
2. A new terminus for Southern Railway at Birmingham, U. S. A. 3½ p.

Vol. XXV. No. 9. Sept. 1, 1916.

1. Completing the Mount Royal Tunnel into Montreal. 3½ p.
2. Mechanical coal stage, Dairycoates, Hull. 2½ p.

Vol. XXV. No. 10. Sept. 8, 1916.

1. Harbour branch extension—Great India Peninsula Railway. 2 p.
2. The equipment of signal boxes. 2 p.

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- Vol. XXV. No. 11. Sept. 15, 1916.
1. A practical method for the adjustment of curves. 5 p.
 2. New alternating current signal installation on the Grand Trunk Railway. 2 p.
- Vol. XXV. No. 12. Sept. 22, 1916.
1. A modern terminal passenger yard. 4 p.
 2. Train control on the East Indian Railway. 3 p.
- Vol. XXV. No. 13. Sept. 29, 1916.
1. Concrete viaducts on the Chicago, Milwaukee and St. Paul. 2½ p.

RAILWAY REVIEW

- Vol. 59. No. 9. Aug. 26, 1916.
1. Examples of federal valuations of railroads. 5 p.
- Vol. 59. No. 11. Sept. 9, 1916.
1. Pennsylvania Railroad's improvements, at Wilkesburg, Pa. 2 p.
- Vol. 59. No. 12. Sept. 16, 1916.
1. New coal pier of the B. & O. R. R., at Curtis Bay, Baltimore. 4 p.
- Vol. 59. No. 13. Sept. 23, 1916.
1. The Roadmasters' Convention. 4 p.
 2. Disaster at the Quebec Bridge. 3 p.
 3. Calculation of scale members. 2 p.
- Vol. 59. No. 14. Sept. 30, 1916.
1. Power and irrigation project for the Big Horn Canyon. 12 p.
 2. Calculation of scale members. 2 p.
- Vol. 59. No. 16. Oct. 14, 1916.
1. Calculation of scale members. 3 p.

SCIENTIFIC AMERICAN

- Vol. CXV. No. 9. Aug. 26, 1916.
1. Bridge building in the shop. (How the gigantic members of the Quebec Bridge are fabricated.) 1½ p.
 2. A frequent cause of broken rails. (Incipient internal fractures due to faults of manufacture.) ½ p.
- Vol. CXV. No. 11. Sept. 9, 1916.
1. A difficult piece in subaqueous rock excavation. 1 p.
- Vol. CXV. No. 12. Sept. 16, 1916.
1. Reclaiming the everglades of Florida. (How huge ditchers are cutting miles of drainage canals through the waste lands.) 1½ p.
- Vol. CXV. No. 13. Sept. 23, 1916.
1. The Quebec Bridge disaster. (For the second time the world's greatest bridge in wrecked during erection.) 2 p.
- Vol. CXV. No. 14. Sept. 30, 1916.
1. Further light on the Quebec Bridge disaster. (A minute examination of the structure discloses internal evidence of the cause of the collapse.) 1½ p.

SCIENTIFIC AMERICAN SUPPLEMENT

- Vol. LXXXII. No. 2122. Sept. 2, 1916.
1. Bridge building in New Zealand. (Interesting designs that have been

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- successfully erected.) 1½ p.
 Vol. LXXXII. No. 2127. Oct. 7, 1916.
 1. Plowing drainage ditches. (A monster implement successfully operated in the Middle West.) 2 p.
 2. The preservation of sandy beaches. (Studies made in the vicinity of New York.) 3 p.

THE ENGINEER

- Vol. CXXII. No. 3163. Aug. 11, 1916.
 1. The Williams-Street Section of the New York Subway. 2½ p.
 Vol. CXXII. No. 3164. Aug. 18, 1916.
 1. Electrification on the Chicago, Milwaukee and St. Paul Railway. No. I. 2½ p.
 2. Deep-well pumping plant at the Leathersellers Hall. 1½ p.
 Vol. CXXII. No. 3165. Aug. 25, 1916.
 1. Electrification on the Chicago, Milwaukee and St. Paul Railway. No. II. 2½ p.
 Vol. CXXII. No. 3166. Sept. 1, 1916.
 1. Elephant Butte Dam. 3 p.
 2. Daylight lamp signals on the Pennsylvania Railroad. 1 p.
 Vol. CXXII. No. 3167. Sept. 8, 1916.
 1. Draining great swamps in New Zealand. 2 p.
 Vol. CXXII. No. 3168. Sept. 15, 1916.
 1. The Quebec Bridge accident. 3 p.

THE FAR EASTERN REVIEW

- Vol. XIII. No. 3. August, 1916.
 1. Philippine Railway Company report for 1915. 3 p.

THE INDIAN & EASTERN ENGINEER

- Vol. XXXIX. No. 2. August, 1916.
 1. The Bombay 'Vibrocel' sea wall. 3 p.

THE RAILWAY MAGAZINE

- Vol. XXXIX. No. 231. September, 1916.
 1. Portsmouth routes of the London, Brighton and South Coast Railway. 15 p.
 2. Railway electrical progress and practice. 8 p.

WATER AND WATER ENGINEERING

- Vol. XVIII. No. 212. Aug. 15, 1916.
 1. Practicable sewage treatment. 5 p.
 2. The theory of the corrosion of steel. 4 p.
 Vol. XVIII. No. 213. Sept. 15, 1916.
 1. Notes on the Melbourne water supply. 7 p.