

- Annual report of the governor of the Panama Canal for 1915-1916. 637 P., illustrated, maps and diagrams, 6×9, paper.
- Bridge manual—State of Oregon. Containing standards, general information and instructions. 154 P., illustrated, 4½×7¼, paper. Salem, Ore., Office of State Highway Commission.
- Department of wharves, docks and ferries, Philadelphia. Annual report, 1915. 145 P., illustrated, 6×9, paper. Philadelphia, George S. Webster, director, Bourse Building.
- Handbook on wood preservation. 73 p., illustrated, 6×9, cloth. Baltimore, Md., American Wood Preservers' Association.
- Practical street construction. (Reprinted from a series of articles that appeared in "Municipal Journal" 1916.) 248 P., 151 illustrations, 6×9, cloth. Price: \$ 2.00.
- Proceedings of the twelfth annual convention, American Concrete Institute, 1916. 569 P., illustrated, 6×9, cloth. H. D. Flynds, secretary, 30 Broad Street.
- Progress reports of experiments in dust prevention and preservation, 1915. Bulletin 407, U. S. Department of Agriculture, Office of Public Roads and Rural Engineering. 71 P., 6×9, paper. Washington, Government Printing Office.
- Report of the water conservation and irrigation commission, 1916—Sydney, Australia. 128 P., illustrated, 8×13, paper.
- Report on irrigation surveys and inspections, 1915-16—Ottawa, Canada: Department of Interior, Irrigation Branch. 86 P., illustrated, 7×10, paper.
- Surface water-supply of the United States, 1913: Part XI, Pacific slope basins in California—By N. C. Grover, H. D. McGlashan and F. F. Henshaw. Washington, D. C.: United States Geological Survey. Water Supply Paper 361. Prepared in cooperation with the State of California. 514 P., illustrated, 6×9, paper.

内外諸雜誌主要題目

工學會誌

第四百三卷. 大正六年二月二十日.

1. 英領印度. 二十一頁.

工業雜誌

第四十六卷. 五百九十六號. 大正六年一月二十五日.

1. 東京築港ト諸工業ニ及ホス影響. 七頁.

帝國鐵道協會々報

第十八卷. 第一號. 大正六年一月二十五日.

1. 京都停車場改良工事概要. 二十九頁.
2. 鮮滿蒙鐵道網論. 十二頁.

第十八卷. 第二號. 大正六年二月二十五日.

1. 最近十年間ニ於ケル米國鐵道ノ大勢. 二十二頁.

2. 京都停車場改良工事概要. (承前). 二十五頁.

ANNALES DES PONTS ET CHAUSSÉES
PARTIE TECHNIQUE

Tome XXXIII. Vol. III. Mai-Juin, 1916.

1. Moments et flèches des plaques rectangulaires minces portant une charge uniformément répartie. 126 p.
2. Note sur l'électrification des treuils de manoeuvre des portes et des vannes de l'écluse à sas du port de la Rochelle-Pallice. 18 p.

Tome XXXIV. Vol. IV. Juillet-Août, 1916.

1. Etude sur le profil en travers des chaussées de Paris. 57 p.

BULLETIN OF THE AMERICAN RAILWAY
ENGINEERING ASSOCIATION

Vol. 18. No. 191. November, 1916.

1. Report on electricity. 36 p.
2. Report on electrolysis. 153 p.

Vol. 18. No. 192. December, 1916.

1. Report on signals and interlocking. 77 p.
2. Report on signs, fences and crossings. 68 p.

CEMENT WORLD

Vol. X. No. 10. Jan. 15, 1917.

1. New subways under New York. 11 p.
2. The laying of cement or concrete sidewalks. 4 p.
3. Drainage system in constructing Roscoe River Bridge abutment. 3½ p.
4. Water the chief factor in the making of good concrete. 6½ p.
5. Concrete slab trestles. 6 p.

ELECTRIC RAILWAY JOURNAL

Vol. XLVIII. No. 26. Dec. 23, 1916.

1. Traction Commission report to Chicago Council. 3 p.

Vol. XLVIII. No. 27. Dec. 30, 1916.

1. Electric railway drawbridge safeguarding. 3½ p.

Vol. XLIX. No. 4. Jan. 27, 1917.

1. Methods for handling way materials economically. 2 p.
2. Treated wood for ties and paving. 2 p.

ENGINEERING

Vol. CII. No. 2659. Dec. 15, 1916.

1. Experiments on earth pressures. ½ p.
2. Report of the hardness tests research committee. 3 p.

Vol. CIII. No. 2663. Jan. 12, 1917.

1. Recent progress in dredging machinery. 1 p.

Vol. CIII. No. 2664. Jan. 19, 1917.

1. Woolworth building, New York. 4 p.
2. Great Western Railway developments in Birmingham. 5 p.

ENGINEERING NEWS

- Vol. 76. No. 26. Dec. 28, 1916.
1. Flushing streets from trolley cars at Worcester, Mass. 2 p.
 2. Rainfall data interpreted by laws of probability. 3½ p.
 3. Cost records of monolithic brick pavements. 2 p.
 4. New type of concrete floor on St. Louis Bridge. 2 p.
- Vol. 77. No. 1. Jan. 4, 1917.
1. Hudson River road built on mountain side. 2 p.
 2. Five water-works make filter alum. I. 2 p.
 3. Roosevelt drainage tunnel of the Cripple Creek district. 3 p.
 4. The Miami flood-protection work. 5 p.
 5. Placing ornamental concrete on steel frames. 3 p.
- Vol. 77. No. 2. Jan. 11, 1917.
1. Willamette Pacific Railroad; a new line through the coast range. 4 p.
 2. Adding 11 ft. to top of trap-rock dam at Bridgeport. 3 p.
 3. The Miami Valley flood-protection work.—II. Why retarding basins were adopted. 3½ p.
 4. Large levee and drainage system in Indiana. 3 p.
- Vol. 77. No. 3. Jan. 18, 1917.
1. Travis tank and sprinkling sewage filters, Paqueta Island, Rio de Janeiro. 2 p.
 2. Cleveland's new water-intake tunnel completed. 5 p.
 3. Nonfireproof institutional buildings in New York City made safe against fire. 3 p.
- Vol. 77. No. 4. Jan. 25, 1917.
1. Huge Chicago freight station for Pennsylvania lines. 4 p.
 2. Building an 8-in. Macadam pavement with a tar and gravel top. 1½ p.
 3. The Miami Valley flood-protection work.—III. 7 p.
- Vol. 77. No. 5. Feb. 1, 1917.
1. Concrete-mixer boat for Ohio River locks. 5 p.
 2. Deflection and wall-girder tested on floor of a flat slab concrete building. 2½ p.
 3. Helpful suggestions for surveying country highways. 2 p.
 4. Making large concrete blocks for the Panama Canal breakwaters. 2 p.
 5. The Miami Valley flood-protection work.—IV. 3 p.
 6. Concrete finish on some Cleveland Bridges. 2 p.
- Vol. 77. No. 6. Feb. 8, 1917.
1. Old Ohio River Bridge at Louisville—nearly fifty years in service. 6 p.
 2. Double-track work on a busy section of the Erie Railroad. 3½ p.
 3. Steel sheetpile bulkhead driving affords new experience to designer. 3 p.
 4. New methods in tunneling in variable soft ground. 5 p.
 5. Activated-sludge plants at Houston, Texas. 3 p.
 6. Dry mixing of concrete materials on calumet sewer at Chicago. 1½ p.

Vol. 74. No. 26. Dec. 23, 1916.

1. New center cut method avoids vertical face in bad rock on New York subway work. 3 p.
2. Surge-tank problems solved by new method. 1 p.
3. Unified traction plan for Chicago will pull out sides of elevated loop. 2½ p.
4. Special details in erection reduce secondary stresses in longest simple trusses. 2 p.

Vol. 74. No. 27. Dec. 30, 1916.

1. Water the chief factor in the making of good concrete. 4 p.
2. Higher unit stresses for pipe and computation of water hammer pressure advocated. 1 p.
3. Soft ground tunnel under lake Union at Seattle presents many difficulties. 1½ p.
4. Brick pavement on two-inch mortar base laid for \$ 1.45½ per square yard. 2½ p.
5. "South Station Under" of Boston Rapid Transit System has ample facilities. 2 p.

Vol. 75. No. 2. Jan. 13, 1917.

1. On the Mexican border with the 22d engineers. Part I. 3¼ p.
2. Prof. Whipple reports on New York's proposed garbage reduction work. 2 p.
3. Build concrete slab under Busy Railroad Station to expedite subway construction. 3¼ p.
4. Flat slab design formulas proposed by Joint Committee. 3 p.
5. New steel column tests reported by special committee. 1 p.

Vol. 75. No. 3. Jan. 20, 1917.

1. Form travelers hoist canal wall concrete. 3½ p.
2. Three washed-out steel spans replaced in ten days. 2 p.
3. Quartz-gravel aggregate blamed for excessive fire damage. 2 p.
4. Deep girders for tank on new top floor of Chicago building. 2 p.
5. Hawaiian tunnel driven by Japanese labor working waist deep in water. 2½ p.

Vol. 75. No. 4. Jan. 27, 1917.

1. Types of bank protection on the Sacramento River compared. 4½ p.
2. Reinforced concrete successful for railroad culverts. 1¼ p.
3. Heavy bracing gives large open pockets in deep cofferdam. 2½ p.

Vol. 75. No. 5. Feb. 3, 1917.

1. Old Macadam resurfaced with sheet asphalt in New Haven. 3 p.
2. Polished concrete in surface structures of Boston subways. 3 p.
3. Largest pit in the world used to submerge coal for storage. 2 p.
4. Lakewood's business streets paved with concrete. 2 p.
5. Appearance governs design of park avenue bridge, Cincinnati. 3 p.

Vol. 75. No. 6. Feb. 10, 1917.

1. Fishing creek station develops 44,000 horse-power under 50 ft. head. 3 p.
2. Chicago's half-completed garbage reduction plan turns expense into income. 4 p.
3. Simple and cantilever K-trusses analyzed. 4½ p.

JOURNAL OF THE AMERICAN WATER
WORKS ASSOCIATION

- Vol. 3. No. 4. December, 1916.
1. Recovery of spent line at the Columbus water softening and purification works. 8 p.
 2. Mt. Kisco sewage disposal plant. 19 p.
 3. Tests for bacillus coli as an indicator of water pollution. 20 p.
 4. Freezing of water in subaqueous mains laid in salt water and in main and services laid on land. 19 p.

JOURNAL OF THE WESTERN SOCIETY
OF ENGINEERS

- Vol. XXI. No. 9. Nov., 1916.
1. Investigation of flood flow on the Wisconsin River at Merrill, Wisconsin, July 23-24, 1912. 29 p.
 2. The engineer and public service. 20 p.
 3. Construction of a narrow gauge railway in the Republic of Panama. 18 p.
- Vol. XXI. No. 10. Dec., 1916.
1. A comparison of the activated sludge and the imhoff tank-trickling filter processes of sewage treatment. 37 p.

LE GÉNIE CIVIL

- Tome LXIX. No. 25. 16 Dec., 1916.
1. Les ports français et la guerre: Marseille (planche V). 8 p.
 2. La construction des ponts aux États-Unis. 3 p.
- Tome LXIX. No. 26. 23 Dec., 1916.
1. Les ports français et la guerre. Les ports secondaires de la Méditerranée: Port-Saint-Louis-du-Rhône, Toulon, Nice. 4 p.
- Tome LXIX. No. 27. 30 Dec., 1916.
1. Les ports français et la guerre. Les ports secondaires de la Méditerranée (suite): Cette et Port-Vendres. 6 p.
- Tome LXX. No. 1. 6 Jan., 1917.
1. Étude sur un nouveau système de pont suspendu rigide à arcs doubles. 5 p.
 2. La protection de Paris contre les inondations. Le projet de loi relatif aux travaux nécessaires. 5½ p.
- Tome LXX. No. 2. 13 Jan., 1917.
1. Étude sur un nouveau système de pont suspendu rigide à arcs doubles (suite). 5 p.
- Tome LXX. No. 3. 20 Jan., 1917.
1. Étude sur un nouveau système de pont suspendu rigide à arcs doubles (suite et fin). 5 p.

MUNICIPAL JOURNAL

- Vol. XII. No. 26. Dec. 28, 1916.

1. Binghamton's intercepting sewer. 3½ p.
2. Neponsit sewerage system. 2 p.
- Vol. XLII. No. 1. Jan. 4, 1917.
 1. Pumping with the air lift. 3½ p.
 2. Stone and concrete pavement foundations. 2 p.
- Vol. XLII. No. 2. Jan. 11, 1917.
 1. Testing reinforced concrete pipe at Boulder. 2½ p.
 2. Apparatus for testing concrete pipe. 1½ p.
- Vol. XLII. No. 3. Jan. 18, 1917.
 1. Water consumption data. 3 p.
- Vol. XLII. No. 4. Jan. 25, 1917.
 1. Rochester sewage treatment plant. 3 p.
- Vol. XLII. No. 5. Feb. 1, 1917.
 1. Street paving in 1916: Tables and general information. 41 p.
- Vol. XLII. No. 6. Feb. 8, 1917.
 1. Reclaiming old Macadam roadways. 1½ p.
 2. General paving principles. 2 p.

PROFESSIONAL MEMOIRS

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

- Vol. IX. No. 43. Jan.—Feb., 1917.
 1. Breakwater and jetty construction in the New London Conn., District. 22 p.
 2. Subaqueous concrete work on the Cape Fear River North Carolina. 11 p.
 3. Levee paving with concrete. 8 p.
 4. Box cofferdams on the Ouachita and Big Sunflower Rivers. 19 p.
 5. Permanent superstructures on harbor piers Milwaukee, Wis., district. 16 p.

RAILWAY REVIEW

- Vol. 59. No. 26. Dec. 23, 1916.
 1. Pulverized fuel for locomotives. 7½ p.
- Vol. 59. No. 27. Dec. 30, 1916.
 1. Protective devices at highway crossings, Southern Pacific Co. 2 p.
 2. Transverse fissures in rails. 3½ p.
 3. "Blowout" difficulties in tunneling under East River, New York City. 1½ p.
- Vol. 60. No. 2. Jan. 13, 1917.
 1. Report on safety appliance inspection. 2 p.
 2. Water treatment on the Missouri Pacific Ry. 2½ p.
- Vol. 60. No. 3. Jan. 20, 1917.
 1. Reinforced concrete coaling stations on the St. Louis—San Francisco Ry. 2½ p.
- Vol. 60. No. 4. Jan. 27, 1917.
 1. Grouping of ties for treatment. 2 p.
 2. Convention of the Wood Preservers' Association. 2½ p.
- Vol. 60. No. 5. Feb. 3, 1917.

1. Freight car repair problems. 6½ p.

RAILWAY GAZETTE

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- Vol. XXV. No. 24. Dec. 15, 1916.
1. The Pennsylvania's fight with the snow. 3½ p.
 2. Tests of corrugated culverts. 4 p.
- Vol. XXV. No. 25. Dec. 22, 1916.
1. Power signalling installation at Flemington, New South Wales Railways. 5½ p.
- Vol. XXVI. No. 1. Jan. 5, 1917.
1. The electrification of the Pennsylvania Railroad, Philadelphia to Paoli. 7½ p.
- Vol. XXVI. No. 2. Jan. 12, 1917.
1. The electrification of the Pennsylvania Railroad, Philadelphia to Paoli. 4½ p.
 2. Analysis of steam train resistance. 4 p.
- Vol. XXVI. No. 3. Jan. 19, 1917.
1. The electrification of the Pennsylvania Railroad, Philadelphia to Paoli. 3 p.

SCHWEIZERISCHE BAUZEITUNG

- Band LXIX. No. 1. 6. Jan., 1917.
1. Das neue Elektrizitätswerk der Stadt Chur an der Plessur bei Lüen. 4 p.
- Band LXIX. No. 2. 13. Jan., 1917.
1. Das neue Elektrizitätswerk der Stadt Chur an der Plessur bei Lüen. 2 p.
- Band LXIX. No. 3. 20. Jan., 1917.
1. Das neue Elektrizitätswerk der Stadt Chur an der Plessur bei Lüen. 2½ p.

SCIENTIFIC AMERICAN

- Vol. CXVI. No. 2. Jan. 13, 1917.
1. Moving a big bridge. 1 p.
 2. A proposed highway tunnel beneath the Hudson River. (Two 17-foot roadways to relieve the congestion on the river ferries.) 1 p.
- Vol. CXVI. No. 6. Feb. 10, 1917.
1. Using electric lift bridges to reduce trucking distances on freight platform. ¼ p.

SCIENTIFIC AMERICAN SUPPLEMENT

- Vol. LXXXII. No. 2139. Dec. 30, 1916.
1. On stresses in transparent Materials. (As revealed by polarized light.) 2 p.
 2. How charts are made. (Important work that requires great skill and care). 3½ p.
- Vol. LXXXIII. No. 2144. Feb. 3, 1917.
1. Can the velocity of water be Measured. (By passing an electric

- current through it.) $2\frac{1}{2}$ p.
 Vol. LXXXIII. No. 2145. Feb. 10, 1917.
 1. Experiments on earth-pressures. $\frac{1}{2}$ p.

THE ENGINEER

- Vol. CXXII. No. 3181. Dec. 15, 1917.
 1. The Misox Railway. No. II. $2\frac{1}{2}$ p.
 2. The channel tunnel and other projects. No. VII. 2 p.
 Vol. CXXII. No. 3182. Dec. 22, 1917.
 1. Power signalling installation at Flemington, N. S. W. 3 p.
 2. The channel tunnel and other projects. No. VIII. $2\frac{1}{4}$ p.
 Vol. CXXII. No. 3183. Dec. 29, 1917.
 1. The channel tunnel and other projects. No. IX. $1\frac{1}{2}$ p.

THE INDIAN & EASTERN ENGINEER

- Vol. XL. No. 1. January, 1917.
 1. Irrigation in the United provinces. 4 p.

THE FAR EASTERN REVIEW

- Vol. XIII. No. 7. December, 1916.
 1. New junction line at Shanghai. 2 p.

THE RAILWAY ENGINEER

- Vol. XXXVIII. No. 444. January, 1917.
 1. Large bridge struts. 1 p.
 2. The strength of bolted joints of timber work. $1\frac{1}{2}$ p.

THE RAILWAY MAGAZINE

- Vol. XL. No. 235. January, 1917.
 1. The Western lines of the London and South Western Railway. [No. I.] 8 p.

WATER AND WATER ENGINEERING

- Vol. XVIII. No. 216. Dec. 15, 1916.
 1. New Zealand Government's first hydro-electric scheme—Lake Coleridge. $2\frac{1}{2}$ p.
 2. River gauging by the small Price electric current meter. $3\frac{1}{2}$ p.
 3. Tube well strainers. 7 p.
 Vol. XIX. No. 217. Jan. 15, 1917.
 1. River gauging by the small Price electric current meter. 4 p.