

新刊紹介

土木學會誌 第四卷第三號 大正七年六月

新刊紹介
外内諸雜誌主要題目

- Allen, C. F.—Business law for engineers. 457 P., 6×9, cloth. McGraw-Hill Book Co., New York. Price: \$3.00
- Alvord, J. W. etc.—Relief from floods. 165 P., illustrated, 6×9, cloth. McGraw-Hill Book Co., New York. Price: \$2.00
- Baker, I. O.—A treatise on roads and pavements. 3rd edition. 658 P., illustrated, 6×9, cloth. John Wiley & Sons, New York. Price: \$ 4.50.
- Coignet, M. J.—L'hydraulique en Tunisie et les grands barrages-réservoirs. Un volume in-8° de 146 P., avec cartes et plans. Imprimerie Centrale, Tunis.
- Emperger—Handbuch für Eisenbetonbau. II Ergänzungsband zur ersten wie zur Zweite Auflage. Mit 330 Textabbildungen. Berlin 1917, Verlage von Wilhelm Ernst & Sohn. Preis geh. 12 M., geb. M. 16.50.
- Guillot, L.—Cours de mécanique (Tome quatrième) Un volume in-8° de 385 P., avec 253 figures. Béranger, éditeur, Paris. Prax. (Majoration comprise): 21 francs.
- King, H. W.—Handbook of hydraulics. 413 P., illustrated, 4×7, leather. McGraw-Hill Book Co., New York.
- Müller, W.—Technische Tabellen und Formeln. Mit 106 Figuren. Zweite, verbesserte Auflage. Berlin und Leipzig 1917, Verlag von G. J. Göschen. Preis geb. 1M.
- Orrock, J. W.—Railroad structures and estimates. 580 P., 272 illustrations, 8½×5½, leather. John Wiley & Son, New York. Price: \$ 5.00.
- Raymond, W. G.—The elements of railroad engineering. 453 P., illustrated, 5½×8½, cloth. 3rd edition revised. John Wiley & Sons, New York. Price: \$4.00
- Proceedings of the American Railway Bridge and Building Association. 300 P., illustrated, 6×9, bound in paper and cloth. Published by the Association, C. A. Lichty, secretary. 319 North Waller Avenue, Chicago. Price: \$1.00.
- Surface Water-Supply of Hawaii: July 1, 1913, to June 30, 1915. Water Supply Paper 430. Washington, D. C.: U. S. Geological Survey. 322 P., 6×9, paper.
- Surface Water Supply of the United States: 1916, Part IV. St. Lawrence River basin. Water Supply Paper 430. Washington, D. C. U. S. Geological Survey. 128 P., illustrated, 6×9, paper.

内外諸雜誌主要題目

工 學

第五卷 第四號(第四十八號) 大正七年四月十日。

1. 下水處分ノ資料及ヒ細菌理論ニ就テ。 7 頁。
2. 堰。 7 頁。
3. 東京市内河川大浚渫事業施行ニ伴フ護岸ノ施設。(二) 9 頁。

4. 水力ト我國。(四) 6頁.

第五卷. 第五號(第四十九號). 大正七年五月十日

1. はいりぶ及ヒたーびやノ橋床. 5頁.
2. 下水處分ノ資料及ヒ細菌理論ニ就テ。(二) 4頁.
3. 水力ト我國。(五) 8頁.

工業雜誌

第四十八卷. 第六百二十四號. 大正七年三月二十日.

1. 海嘯ト護岸ノ破壞及其復舊ニ就テ. 3頁.

帝國鐵道協會々報

第十九卷. 第三號. 大正七年三月二十五日.

1. 支那鐵道視察談. 14頁.
2. 電氣鐵道三線交叉點ニ於ケル電氣聯動裝置ニ就テ. 13頁.
3. 英吉利海峽隧道ニ就テ. 13頁.

第十九卷. 第四號. 大正七年四月二十五日.

1. 戰爭ト鐵道. 13頁.
2. 輕便鐵道補助法ノ改正. 10頁.
3. 滿鮮視察復命書。(其一) 21頁.

第十九卷. 第五號. 大正七年五月二十五日.

1. 米國ニ於ケル鐵材ノ供給. 15頁.

ANNALES DES PONTS ET CHAUSSEES

PARTIE TECHNIQUE

Tome XLI. Vol. VI. Nov.-Fée., 1917.

1. Déversoirs noyés. Représentation graphique directe des lois expérimentales de l'écoulement. 27 p.
2. Le théorème des quatre moments et ses applications. 8 p.

BULLETIN OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION

Vol. 19. No. 203. January, 1918.

1. Report on yards and terminals. 34 p.
2. Report on ties. 36 p.
3. Report on rail. 135 p.

Vol. 19. No. 204. February, 1918.

1. Report on electricity. 38 p.
2. Report on wooden bridges and trestles. 28 p.
3. Report on signs, fences and crossings. 64 p.
4. Report on ballast. 44 p.
5. Report on masonry. 44 p.
6. Report on iron and steel structures. 96 p.

- Vol. 19. No. 205. March, 1918.
1. Special committee on stresses in railroad track. 184 p.
 2. Report on wood preservation. 12 p.

CANADIAN ENGINEER

- Vol. 34. No. 8. Feb. 21, 1918.
1. Survey monuments. 3 p.
 2. Impact—The effect of moving loads on railway bridges. 3 p.
 3. Manufacture of sewer pipe. 3 p.
 4. Road drainage. 3 p.
- Vol. 34. No. 9. Feb. 28, 1918.
1. Smooth rock falls power development. 5½ p.
 2. Road maintenance and repair. 2 p.
- Vol. 34. No. 10. March 7, 1918.
1. Erection of Kettle rapids bridge. 2 p.
 2. Sewer pipe joints. 2 p.
- Vol. 34. No. 11. March 14, 1918.
1. Water filtration plant at St Hyacinthe, P. Q. 4 p.
 2. Operation of small sewage disposal plants. 3 p.
- Vol. 34. No. 12. March 12, 1918.
1. High voltage transmission line has mile span. 1½ p.
 2. Sewage treatment and disposal. 2 p.
- Vol. 34. No. 13. Mar. 28, 1918.
1. Results of test on Robert Simpson Building. 5 p.
 2. Concrete paved bank revetment. 4 p.
- Vol. 34. No. 14. Apr. 4, 1918.
1. Railway electrification. 2 p.
- Vol. 34. No. 15. Apr. 11, 1918.
1. Plan for emergency development at Niagara Falls. 3 p.
 2. Electrical thawing of water pipes. 1 p.
 3. The resistance of a group of piles. 4 p.
 4. Ice diversion, hydraulic models, and hydraulic similarity. 5 p.

CONCRETE AND CONSTRUCTIONAL ENGINEERING

- Vol. XIII. No. 2. February, 1918.
1. Researches on reinforced concrete beams. 10 p.
 2. The Setting of cements and plasters. 8 p.
 3. Concrete in sea water. 4 p.
 4. British trade and metric system. 5 p.
- Vol. XIII. No. 3. March, 1918.
1. Problems in the theory of construction. (The strength of pillars.) 7 p.
 2. The setting of cements and plasters. 7 p.
 3. Concrete in sea water. 8 p.

ELECTRIC RAILWAY JOURNAL

- Vol. 51. No. 8. Feb. 23, 1918.
1. The forces which act upon a transmission line. 3 p.
- Vol. 51. No. 12. Mar. 23, 1918.

1. The latest commercial electric locomotives. 9 p.
2. Track engineers meet. 2 p.
- Vol. 51. No. 13. Mar. 30, 1918.
 1. Track construction methods employed in Chicago. 4 p.
 2. Parking of automobiles chokes traffic channels. 4 p.
- Vol. 51. No. 14. Apr. 6, 1918.
 1. Uniform track spirals will conduce to economy. 4½ p.
- Vol. 51. No. 16. Apr. 20, 1918.
 1. Getting the right wood poles for electric railway service. 5. p.

ENGINEERING

- Vol. CV. No. 2720. Feb. 15, 1918.
 1. Influence lines for continuous beams. 2½ p.
 2. The economics of the Chinese Railways. 2 p.
 3. Signalling and interlocking of Keadby Railway and Bridge. 3 p.
 4. Traction on bad roads or land. 8 p.
- Vol. CV. No. 2721. Feb. 22, 1918.
 1. Resilient chairs and ferro-concrete sleepers. 3 p.
 2. The Sciotoville Bridge. 1½ p.
 3. Traction on bad roads or land. 4 p.
- Vol. CV. No. 2722. Mar. 1, 1918.
 1. Signalling and interlocking of Keadby Railway and Bridge. 2½ p.
 2. Traction on bad roads or land. 5 p.
- Vol. CV. No. 2723. Mar. 8, 1918.
 1. Plate fulcrum track weighbridge. 3 p.
 2. The hardening and tempering of steel. 3½ p.
- Vol. CV. No. 2726. Mar. 29, 1918.
 1. The Arrowrock Dam, Idaho, U. S. A. 2 p.
- Vol. CV. No. 2727. Apr. 5, 1918.
 1. Hardening tramway rails in situ. 1 p.

ENGINEERING AND CEMENT WORLD

- Vol. 12. No. 5. Mar. 1, 1918.
 1. Underpinning for the New York subway—Some of the features 5 p.
 2. Through-arch bridges of reinforced concrete. 2½ p.
 3. Design and construction of reinforced concrete covered reservoirs. 3½ p.
- Vol. 12. No. 6. Mar. 15, 1918.
 1. Largest reservoir in the world. 7½ p.
 2. Concrete in power plant construction of New Central Station for Columbus. 6½ p.
 3. Theory of proportioning mixtures for pipe and tile concrete. 3p.
 4. Seven-year tests showing the effect of age and curing conditions of concrete. 2 p.
 5. Features of New York State barge canal system. 3½ p.
 6. Waterville road overhead bridge, West Macon. 5 p.
- Vol. 12. No. 7. Apr. 1, 1918.
 1. Multiple-arch dam construction in California. 6 p.
 2. The resistance of a group of piles. 4 p.
- Vol. 12. No. 8. Apr. 15, 1918.

1. Concrete construction in coast and shore protection 8 p.
2. Electricity in concrete and outdoor construction work. 5 p.

ENGINEERING NEWS-RECORD

Vol. 80. No. 9. Feb. 28, 1918.

1. High-line viaduct and bridge improve rail entrance to Kansas City. 5½ p.
2. Cast half a mile of concrete pipe per day. 2 p.
3. How to proportion unsymmetrical concrete arches. 1½ p.
4. First frost is never responsible for cracked concrete roadways. 2½ p.

Vol. 80. No. 10. Mar. 7, 1918.

1. High multiple arch concrete dam for Salt Lake City water-supply. 3 p.
2. Port terminals for war transportation being built. 3 p.
3. Double-deck railway bridge over Kansas River with thin floor construction. 5 p.

Vol. 80. No. 11. Mar. 14, 1918.

1. New York Central builds \$4,000,000 high-level freight terminal at Cleveland. 8 p.
2. Precast bridge slabs of concrete incased I-beams. 2½ p.
3. Pennsylvania builds large gravity yard at Indianapolis. 2 p.
4. Action of railway track studied by tests of depression and rail stress. 5½ p.

Vol. 80. No. 12. Mar. 21, 1918.

1. Improper drainage the cause of most highway failures. 4 p.
2. New York City has largest and best garbage reduction works. 6 p.
3. Multiple-air-chamber shield for large tunnels. 3 p.
4. Reinforced-concrete flumes poured in 100-foot lengths. 2 p.

Vol. 80. No. 13. Mar. 28, 1918.

1. Timber-arch truss roof with steel gusset-plates. 3 p.
2. Large sand digger has main screen on deck. 3 p.
3. Hinged polygonal steel arch carries viaduct spans. 3 p.
4. Highway problems considered under ten main heads. 4½ p.

Vol. 80. No. 14. Apr. 4, 1918.

1. Brick chimney of record height built to carry off smelter gases. 2½ p.
2. Computing moments on irregularly spaced flat-slab panels. 2½ p.
3. Russian engineers make intensive hydrometric survey in Crimean Upland. 2 p.
4. Why some irrigation canals and reservoirs leak. 2½ p.

Vol. 80. No. 15. Apr. 11, 1918.

1. Compressed air tunnel driven around lock to check leak in wall. 2 p.
2. Great concrete reservoir built with portable mixers. 2½ p.
3. Railway regiment handles jobs of all kinds in France. 4 p.
4. Uniform methods of road construction accounting desirable. 2½ p.

Vol. 80. No. 16. Apr. 18, 1918.

1. Tumalo irrigation storage reservoir leaked profusely and erratically. 2½ p.
2. Tests to determine pressures due to hydraulic fills. 2½ p.
3. Steel roof trusses are designed as elastic arches. 3½ p.
4. Iowa county builds brick road from Camp Dodge to Des Moines 2 p.
5. Arch bridge is concrete from cars on elevated track. 2½ p.

Vol. 80. No. 17. Apr. 25, 1918.

1. Handling machinery feature of erection of ocean pier. $3\frac{1}{2}$ p.
2. Eccentric loading tests result contrary to theory. $1\frac{1}{2}$ p.
3. Purely theoretic superelevations modified for roads. 1 p.
4. Wooden floors on highway bridges are now obsolete. 1 p.
5. New installation keeps ice away from Kookuk Dam 3 p.

JOURNAL OF THE AMERICAN WATER WORKS
ASSOCIATION

Vol. 5. No. 1. March, 1918.

1. Leakage from vitrified pipe used to convey water under a low head. 11 p.

JOURNAL OF THE NEW ENGLAND WATER WORKS
ASSOCIATION

Vol. 32. No. 1. March, 1918.

1. Some methods and results of filtration at providence water works. 18 p.

JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

Vol. XXII. No. 10. December, 1917.

1. The resistance of a group of piles. 10 p.

LE GÉNIE CIVIL

Tome LXXII. No. 7. 16 Féb., 1918.

1. Considération sur le port de Paris, Projet de canal entre Méry-sur-Oise et Épinay-sur-Seine. 2 p.
2. Calcul d'un anneau circulaire. 2 p.

Tome LXXII. No. 10. 9 Mar., 1918.

1. Les ports français et la guerre. Les ports de l'Algérie orientale. Bougie, Philippeville, Bône et ports secondaires. 6 p.

Tome LXXII. No. 12. 23 Mar., 1918.

1. Calcul des Voûtes en béton armé. $3\frac{1}{2}$ p.

Tome LXXII. No. 13. 30 Mar., 1918.

1. Installation pour l'embarquement des minerais de fer à Bilbas (Espagne). 2 p.
2. Nouveau système de déversoir hydraulique à grande longueur de crête. 1 p.

Tome LXXII. No. 13. 6 Avril., 1918.

1. Le matériel des voies étroites stratégiques allemandes et autrichiennes. $4\frac{1}{2}$ p.

PROFESSIONAL MEMOIRS

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

Vol. X. No. 50. March—April, 1918.

1. Concrete paved bank revetment, Missouri River improvement. 14 p.
2. Methods and cost of cofferdam construction at Oregon City locks, Willamette River, Oregon. 21 p.

RAILWAY AGE

- Vol. 64. No. 10. Mar. 8, 1918.
1. Elevated terminal connection at Kansas City. 5 p.
 2. The Japanese operated railroads of Korea. 4½ p.
- Vol. 64. No. 9. Mar. 1, 1918.
1. The Pennsylvania's fight with jack frost and the snow banks. 3 p.
 2. A union package freight terminal at Jersey City. 2½ p.
- Vol. 64. No. 11. Mar. 15, 1918.
1. Winter temperatures and locomotive capacity. 2½ p.
 2. Unusual failure of a railroad draw bridge. 2 p.
 3. A free route to Persia and Afghanistan. 4 p.
- Vol. 64. No. 12. Mar. 22, 1918.
1. American railway supplies in Australia. 6 p.
 2. New reading coal pier has interesting features. 3 p.
- Vol. 64. No. 13. Mar. 29, 1918.
1. China's greatest need today is transportation. 6 p.
 2. Improvements on the Yazoo & Mississippi valley. 3 p.
- Vol. 64. No. 14. Apr. 5, 1918.
1. Designs of the United States standard cars. 13 p.
- Vol. 64. No. 15. Apr. 12, 1918.
1. Late developments regarding transverse fissures. 5 p.
- Vol. 64. No. 16. Apr. 19, 1918.
1. A big transportation problem at Hog Island. 4 p.
 2. Baltimore & Ohio grade separation at Pittsburgh. 4 p.
- Vol. 64. No. 17. Apr. 26, 1918.
1. Seventeen years' life from treated ties. 2 p.
 2. Determining when rail should be renewed. 1½ p.

RAILWAY GAZETTE

- Vol. XXVIII. No. 8. Feb. 22, 1918.
1. Railwaymen and the Army. 3 p.
 2. Train control in the Bletchley area of the London & North-Western Railway. 7 p.
 3. Electrical signalling and control on railways. 3 p.
- Vol. XXVIII. No. 9. Mar. 1, 1918.
1. Snow sheds on the Great Northern, U. S. A. 3 p.
- Vol. XXVIII. No. 12. Mar. 22, 1918.
1. Fighting snow on the Chicago railways. 2 p.
 2. The handling of goods and mineral traffic between Peterborough and London-Great Northern Railway. 5, p.
- Vol. XXVIII. No. 14. Apr. 5, 1918.
1. Traffic control, Newcastle, North-Eastern Railway. 6 p.

RAILWAY MAINTENANCE ENGINEER

- Vol. 14. No. 3. March, 1918.

1. Fighting snow in the Chicago terminals. 3½ p.
 2. Disposing of snow and ice with steam. 2 p.
 3. Causes and prevention of failure in creosoted wood block floors. 2 p.
 4. Advantages of track inspection. 3½ p.
- Vol. 14. No. 4. April, 1918.
1. The possibilities of a maintenance shop. 2. p.
 2. Moving three bridge spans on car trucks. 1 p.
- Vol. 14. No. 5. May, 1918.
1. When should rails come out of the trucks? 3 p.
 2. An object lesson in tie preservation. 2½ p.
 3. Some present day maintenance problems. 3 p.

RAILWAY REVIEW

- Vol. 62. No. 9. Mar. 2, 1918.
1. Recent operating difficulties on Pennsylvania R. R. 4 p.
- Vol. 62. No. 10. Mar. 9, 1918.
1. Dynamic augment; need and means of reducing it. 5 p.
- Vol. 62. No. 11. Mar. 16, 1918.
1. New freight house of the Pennsylvania lines in Chicago. 10 p.
 2. War emergency yard improvements. 5 p.
 3. Rapid pier construction Baltimore & Ohio R. R. 2 p.
 4. Breaking the snow blockade in Chicago terminals. 2 p.
- Vol. 62. No. 12. Mar. 23, 1918.
1. Track elevation of the P. C. C. & St. L. Ry. in Indianapolis. 3 p.
 2. The Railway Engineering convention. 8 p.
- Vol. 62. No. 13. Mar. 30, 1918.
1. United States railroad, administration's freight car equipment standards. 9 p.
- Vol. 62. No. 15. Apr. 13, 1918.
1. The railway terminal problem. 3 p.
- Vol. 62. No. 16. Apr. 20, 1918.
1. Concrete roadways for shops of the A. T. & S. F. Ry., at Topeka, Kan. 4 p.
 2. Railway systems of Siberia. 6 p.

SCHWEIZERISCHE BAUZEITUNG

- Band LXXI. No. 6. 9. Feb., 1918.
1. Kanadische Wasserversorgungs-Pumpen anlagen. 3 p.
 2. Ideen-Wettbewerb für einen Bebauungsplan der Gemeinde Grenohen. 3½ p.
 3. Einfaches Verfahren zur Bestimmung der Axe der Brückengewölbe. 2 p.
- Band LXXI. No. 7. 16. Feb., 1918.
1. Der Kraftbedarf der Schiffstraktion und der Bahntraktion im Wettbewerb. 3 p.
- Band LXXI. No. 8. 23. Feb., 1918.
1. Ergebnisse der Untersuchung von Eisenbeton-Brücken der Schweizerischen Bundesbahnen. 3½ p.
 2. Die Erweiterung des Bahnhofes Chiasso. 2 p.
- Band LXXI. No. 9. 2. März, 1918.

1. Der Förderbetrieb beim Ausbau des II. Simplontunnels. 4 p.
Band LXXI. No. 10. 9. März, 1918.
1. Der Förderbetrieb beim Ausbau des II. Simplontunnels. 4½ p.
Band LXXI. No. 11. 16. März, 1918.
1. Der Förderbetrieb beim Ausbau des II. Simplontunnels. 5½ p.

SCIENTIFIC AMERICAN

- Vol. CXVIII. No. 9. Mar. 2, 1918.
1. New methods in bulkhead construction. 1 p.
Vol. CXVIII. No. 12. Mar. 23, 1918.
1. An American Canal between lakes Erie and Ontario. (Projected ship, sanitation, and power canal involving construction of Giant lift-locks.)
2 p.

SCIENTIFIC AMERICAN SUPPLEMENT

- Vol. LXXXV. No. 2202. Mar. 16, 1918.
1. Longitudinal sleepers for railways and tramways. 1 p.

THE ENGINEER

- Vol. CXXV. No. 3242. Feb. 15, 1918.
1. The Quebec Bridge. 2 p.
Vol. CXXV. No. 3243. Feb. 22, 1918.
1. The hardening and tempering of steel. 1½ p.
Vol. CXXV. No. 3245. Mar. 8, 1918.
1. Coal handling plant at Oran, Algeria. 3 p.

THE FAR EASTERN REVIEW

- Vol. XIV. No. 3. March, 1918.
1. Imperial Railways of Japan. 15 p.
Vol. XIV. No. 4. April, 1918.
1. The railways of Manchuria and Korea. 12 p.

THE INDIAN AND EASTERN ENGINEER

- Vol. XLII. No. 3. March, 1918.
1. A hill railway in Mysore. 3 p.

THE JOURNAL OF THE ENGINEERS' CLUB
OF PHILADELPHIA AND AFFILIATED SOCIETIES

- Vol. XXXV-3. No. 160. March, 1918.
1. New York City's Catskill Water Supply 17 p.

THE RAILWAY ENGINEER

- Vol. XXXIX. No. 459. April, 1918.

1. On the testing of metallic bridges. III. 3 p.
2. Light-signals. 3 p.
3. Iron in cement and concrete. 1 p.

WATER AND WATER ENGINEERING

Vol. XX. No. 231. Mar. 20, 1918.

1. The sinking and lining of large bore wells for public water supplies 4 p.
2. Water power in Great Britain (with special reference to Scotland): its amount and economic value. 4 p.