新刊紹介

土木學會誌　第五卷第一號　大正八年二月

Andrews, E. S. and Cocking, W. C.—Tables of safe loads on steel pillars. James Selwyn & Co., London. Price: 6 s. net.

Haner, D. J.—Modern management applied to construction. The Hill Publishing Co., London. Price: 12 s. 6 d. net.

Mac Elwee, R. S.—Ports and terminal facilities. 316 P., illustrated, cloth. McGraw-Hill Book Co., New York, 1918. (丸善賣價: 6.60 圓).

Rings, F.—Reinforced concrete: Theory and practice. Second edition. B. T. Batsford, London.

Smith, M. V. P.—Professional Papers of the Corps of Royal Engineers. Paper 10. Temporary and semi-permanent water supply. Price: 3 s. 6d. net.

Tobin, J. J. and Losh, A. R.—Highway cost keeping. 52 P., illustrated, 6×9, paper. Washington, D. C.: United States Department of Agriculture. Price: 10 c., from superintendent of documents.

Vaughan, J. A.—The factor of safety of wire ropes used for winding in mine shafts. 11 P., illustrated, 7×10, paper.

Whipple, H.—Concrete stone manufacture. Second edition, revised and enlarged. Detroit Mich.: Concrete-Cement Age Publishing Co., 320 P., illustrated, 5×7, cloth. Price: $1.50.

Wilson, W. M.—Tests to determine the rigidity of riveted joints of steel structures. Urbana, Ill.: Engineering Experiment Station. 55 P., illustrated, 6×9, paper.

Durability of cement draintile and concrete in alkali soils. Technologic Paper of the Bureau of Standards, No. 95. Government Printing Office, Washington.

內外諸雜誌主要題目

工　學

第五卷. 第十二號(第五十六號). 大正七年十二月十日.

1. 市間電氣鐵道. 4頁.
2. 鐵道隧道修繕. 2頁.
3. 溜池餘水吐ノ大サ決定ニ就テ. 3頁.
4. 煉瓦造煙突ノ建設. 12頁.
5. 鐵筋混凝土分格桁計算法. 7頁.
6. 河水ヲ手輕ニ堰止メル事ノ出來ナイ河川ノ護岸基礎工實施例. 4頁.

第六卷. 第一號(第五十七號). 大正八年一月十日.

1. 魚道ノ水吐キ口ト水入レ口. 6頁.
2. 飽水土砂ノ横壓力. 6頁.
3. 列車走行ニ於ケル抵抗及ヒ其影響. 4頁.
4. 無鉸拱ニ要スル基礎公式ノ圖式解法. (一). 5頁.
5. 鐵筋混凝土拱橋設計々算例. (一). 7頁.
6. 靜定結構ノ撓度ヲ求ムル諸法. 4頁.

工學會誌

第四百二十二卷. 大正七年十一月三十日.
1. 工業教育上閑却スヘカラサル商品需給關係ノ智識ニ就テ. 3頁.

第四百二十三卷. 大正七年十二月二十五日.
1. 都市計畫ト工業地域ノ制定. 9頁.

工業雜誌

第四十九卷. 第六百四十號. 大正七年十一月二十日.
1. 茨城縣長井戸沼干拓事業. 6頁.
2. あんばーノ說. 3½頁.

第四十九卷. 第六百四十一號. 大正七年十二月五日.
1. せめんと硬化促進試驗成績. 4½頁.

第四十九卷. 第六百四十二號. 大正七年十二月二十日.
1. 岩石爆發ノ經濟的研究. 5¼頁.

第五十卷. 第六百四十三號. 大正八年一月五日.
1. 發電水力ノ利用ニ關スル諸問題. 4頁.
2. 海面ノ埋築. (承前). 7½頁.
3. 嚙合梁. 2½頁.

帝國鐵道協會々報

第十九卷. 第十一號. 大正七年十一月二十五日.
1. ぼすとん地下鐵道ニ就テ. 28頁. 及附圖 10葉.
2. 歐米鐵道視察報告書. (承前). 26頁. 及附圖1葉.

第十九卷. 第十二號. 大正七年十二月二十五日.
1. 紐育港ニ於ケル貨客航送設備. 18頁. 及附圖7葉.
2. 西伯利ノ近狀ニ就テ. 20頁. 及附圖1葉.
3. 歐米鐵道視察報告書(完). 40頁. 及附圖2葉.

BULLETIN OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION

Vol. 20. No. 210. October, 1918.
1. Practice in the design of concrete floor slabs and flat top culverts. 17 p.
2. Service tests of cross-ties. 52 p.

BULLETIN OF THE SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION

Vol. IX. No 2. October, 1918.
1. Essentials in engineering education. 12 p.

CANADIAN ENGINEER

Vol. 35. No. 15. Oct. 10, 1918.
1. Toronto Union Station an imposing structure. 2½ p.
2. Maintaining old asphalt pavements in Buffalo. 2 p.

Vol. 35. No. 16. Oct. 17, 1918.
1. Proposed filter plant for Walkerville, Ont. 3 p.
2. Welland ship canal. 4 p.

Vol. 35. No. 17. Oct. 24, 1918.
1. Drifting sand filter, Toronto Island. 5½ p.
2. York township water supply. 2¼ p.

Vol. 35. No. 18. Oct. 31, 1918.
1. Direct design of curvature of arches. 4 p.
2. Water powers of the Empire. 4 p.

Vol. 35. No. 19. Nov. 7. 1918.
1. Stream regulation in Quebec Province. 4½ p.
2. High efficiencies shown by moter-driven water works pumps. 1½ p.

Vol. 35. No. 22. Nov. 28, 1918.
1. Hunter St. Bridge, Peterborough, Ont. 4 p.
2. Transmission line has 4,800 ft. clear span. 6 p.

Vol. 35. No. 23. Dec. 5, 1918.
1. St. John River affords big opportunities. 6½ p.

CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. XIII. No. 10. October, 1918.
1. Reinforced concrete factory, Birmingham. 10 p.
2. The Wilson Bridge, Lyons. 4⅛ p.
3. Concrete in sea water. 10 p.
4. Concrete ship building in France. 5 p.
5. Some problems in devising a new finish for concrete. 7 p.
6. Light weight concrete for ships from special aggregate. 2 p.

Vol. XIII. No. 11. November, 1918.
1. The rapid calculation of reinforced concrete structures.—Beams for floors. 5 p.
2. Some experiences on the Vermilion concrete roads. 5 p.

ELECTRIC RAILWAY JOURNAL

Vol. 52. No. 17. Oct. 26, 1918.
1. How public service railway is helping build ships. 6 p.

Vol. 52. No. 19. Nov. 9, 1918.
1. Building an electric railway line to Hog Island. 5½ p.
2. "Fighting" Snow. 2¼ p.
3. Saving $3,000 per year in coal handling. ½ p.

Vol. 52. No. 20. Nov. 16, 1918.
1. Details of line construction—Guying and anchors. 7¼ p.

Vol. 52. No. 22. Nov. 30, 1918.
1. Electrification of the tunnel zone in Montreal, Canada. 2 p.

ENGINEERING

Vol. CVI. No. 2753. Oct. 4, 1918.
1. Coke handling at the Manchester corporation gas works. 3⅓ p.

Vol. CVI. No. 2754. Oct. 11, 1918.
1. Rapid recrystallisation in deformed non-ferrous metals. 1 p.

Vol. CVI. No. 2755. Oct. 18, 1918.
1. Electric traction on the Central Argentine Railway. 4 p.
2. Hardness testing. 4 p.

Vol. CVI. No. 2756. Oct. 25, 1918.
1. Reinforced concrete reservoirs, Montevideo. 6⅔ p.
2. Electric traction on the Central Argentine Railway. 2 p.

Vol. CVI. No. 2757. Nov. 1, 1918.
1. Electric traction on the Central Argentine Railway. 3 p.

Vol. CVI. No. 2758. Nov. 8, 1918.
1. Reinforced concrete reservoirs, Montevideo. ¼ p.
2. Electric welding as applied to steel ship construction. 3⅔ p.

Vol. CVI. No. 2759. Nov. 15, 1918.
1. Falling weight tests on railway tyres. 2 p.
2. Construction and trials of 30,000-tons black sea floating dock. 2⅔ p.
3. Standard concrete barge for use on the New York State Barge Canal. 2 p.

ENGINEERING AND CEMENT WORLD

Vol. 13. No. 9. Nov. 1, 1918.
1. Foundation construction. 2¼ p.
2. Concrete mine workings. 2½ p.
3. Subway extensions in New York City. 1¼ p.
4. Wood pipe supply lines. 1½ p.
5. Premoulded concrete piling for railway bridges. 1½ p.
6. Labor-saving methods in lime-stone quarry. 2½ p.
7. The science of quarrying rock with explosives. 4 p.

Vol. 13. No. 10. Nov. 15, 1918.
1. Newton, Mass., water reservoir. 3½ p.
2. Cold weather concreting. 4½ p.

Vol. 13. No. 11. Dec. 1, 1918.
1. Track elevation and freight terminal P. C. C. & St. L. Ry. at Indianapolis. 5 p.

Vol. 13. No. 12. Dec. 15, 1918.
1. Mechanical features of the vertical lift bridge. 4⅓ p.
2. Pacific coast conditions in cement. ¾ p.
3. Labor saving in rock crushing. 1¼ p.

ENGINEERING NEWS-RECORD

Vol. 81. No. 16. Oct. 17, 1918.
1. Discusses prevention of cracks in hard pavements. 1 p.
2. Concrete barges built true to design dimensions. 3½ p.
3. Pavement gage measures surface irregularities. 1½ p.
4. Concrete block river mattresses prove economical. 1½ p.

Vol. 81. No. 17. Oct. 24, 1918.
1. Dr. Mann reports on his three year study of engineering education. 9¾ p.
2. Oklahoma City wages strenuous fight for water. 2¼ p.
3. Construction teamwork builds "Eagle" plant in two months. 2¾ p.
4. Montezuma aqueduct on Erie Canal is demolished. 3 p.

Vol. 81. No. 18. Oct. 31, 1918.
1. U. S. engineers bridge Marne with german equipment. 1½ p.
2. Canada rushing huge Niagara development as war conservation measure. 5 p.
3. Highway reconstructed and kept open for war traffic. 3 p.

Vol. 81. No. 19. Nov. 7, 1918.
1. American-built railroad cutoff will relieve traffic congestion in France. 4 p.
2. War demands conservation of construction plant by careful winter storage. 3 p.
3. New lake shipyard has side-launching ways under cover. 3 p.
4. Gasoline consumption tests demonstrate value of hard, smooth-surfaced roads. 7½ p.
5. Steel construction characterizes Chicago church. 3½ p.

Vol. 81. No. 20. Nov. 14, 1918.
1. High-pressure gates in dams for water works and irrigation reviewed. 5 p.
2. Some heavy fitting-out cranes—I. Fixed cranes at Kearny and Hog Island Yards. 5 p.
3. New York Central relocates lines to cross barge canal at the Tonawandas. 4 p.
4. Saturation of concrete reduces strength and elasticity. 2¼ p.

Vol. 81. No. 21. Nov. 21, 1918.
1. New impact formulas needed in designing bridges of various types. 5 p.
2. Circular earth embankment lined with concrete forms oil reservoir. 3 p.
3. Some heavy fitting-out cranes.—II. Cantilever and jib travelers at Newark Bay and Bristol. 4¾ p.
4. Oiled macadam roads resurfaced with concrete. 2 p.
5. Some experiences with large-capacity reservoir outlets. 5½ p.

Vol. 81. No. 22. Nov. 28, 1918.
1. Highway-motor truck problem as viewed by user, manufacturer and engineer. 2¾ p.
2. Road maintenance methods and devices effect saving of material, labor and fuel. 3½ p.
3. Different types of framing in two new government reinforced-concrete ships. 3¾ p.
4. Capacity of macadam roads for war business increased. 4 p.
5. Comparison of excavation haulage by motor trucks, industrial railways and teams. 3 p.

INDIAN ENGINEERING

Vol. LXIV. No. 5. Aug. 3, 1918.
1. The economics of steel arch bridges. 2 p.

Vol. LXIV, No. 6. Aug. 10, 1918.
1. Irrigation—Central provinces and Berar. 1½ p.

2. The economics of steel arch bridges. 1½ p.

Vol. LXIV. No. 7. Aug. 17, 1918.
1. Esthetics in bridge design. 1¾ p. with 1 plate.

Vol. LXIV. No. 8. Aug. 24, 1918.
1. Catskill Mountain water supply for New York City. 1½ p. with 1 plate.
2. Experiments on the transverse strength of granite beams. 1½ p.
3. Esthetics in bridge design. 1½ p

Vol. LXIV. No. 9. Aug. 31, 1918.
1. Water power in India. 1½ p.
2. Damascene steel. 1 p. with 1 plate.

JOURNAL OF THE NEW ENGLAND WATER WORKS ASSOCIATION

Vol. 32. No. 3. September, 1918.
1. Saving of water and conservation of coal. 6 p.
2. Practical methods for detecting leaks in underground pipes. 13 p.
3. The fuel situation in New England. 14 p.
4. Expediency of raising rates to offset increased costs. 19 p.

LA HOUILLE BLANCHE

17e Année. No. 21-22. Sept.—Oct., 1918.
1. Projet de Loi pour l'amélioration des rivières non navigables. 2¾ p.

LE GÉNIE CIVIL

Tome LXXIII. No. 15. 12 Oct., 1918.
1. Comment s'est fait l'aménagement des chutes d'eau en France. 4 p.
2. Calcul des pièces en beton armé soumises à une flexion composée. 4¼ p.

Tome LXXIII. No. 16. 19 Oct., 1918.
1. L'usine hydro-électrique de Tremp (Espegne), de la Barcelona Traction Light and Power Company. 5½ p.
2. Comment s'est fait l'aménagement des chutes d'eau en France. 2½ p.

Tome LXXIII. No. 17. 26 Oct., 1918.
1. Ingénieurs et bateliers. L'étude des courants dans les rivières navigables. 1½ p.

Tome LXXIII. No. 18. 2 Nov., 1918.
1. Lignes d'influence pour une poutre Vierendeel. 4 p.

Tome LXXIII. No. 19. 9 Nov., 1918.
1. Barrage mobile cylindrique de la Grand River (Colorado, E.-U.). 1 p.
2. Calculs concernant les améliorations des rivières. 1½ p.

MUNICIPAL JOURNAL

Vol. XLV. No. 16. Oct. 19, 1918.
1. Improving Fort Worth's water supply. 2½ p.
2. Miles acid treatment of sewage. 2½ p.
3. Water works operation. 2 p.
4. Sewage disposal on the Detroit River. 1¼ p.

Vol. XLV. No. 17. Oct. 26, 1918.
1. Street cleaning in San Francisco. 2¼ p.
2. Miles acid treatment of sewage. 1½ p.
3. Water works operation. 2 p.

Vol. XLV. No. 18. Nov. 2, 1918.
1. Estimating sewer system costs. 2 p.
2. Water works operation. 2 p.

Vol. XLV. No. 19. Nov. 9, 1918.
1. A sanitary survey of a city. 3½ p.
2. Service connection to concrete water mains. ½ p.
3. Roadside trees in North Carolina. 2½ p.

Vol. XLV. No. 20. Nov. 16. 1918.
1. Refuse collection in Spokane. 1½ p.
2. A sanitary survey of a city. 3½ p.

Vol. XLV. No. 21. Nov. 23, 1918.
1. San Francisco's municipal street railway. 3¾ p.
2. Making a road map by automobile survey. 1 p.

Vol. XLV. No. 22. Nov. 30, 1918.
1. Extra cantonment zone sanitation. 4 p.
2. Water works operation. 1½ p.

Vol. XLV. No. 23. Dec. 7, 1918.
1. Selection of water meters. 5 p.
2. National control of watersheds. 1½ p.
3. Water works operation. 2 p.

RAILWAY AGE

Vol. 65. No. 15. Oct. 11, 1918.
1. The B. & O. completes the Long Fork Railway. 1¾ p.

Vol. 65. No. 16. Oct. 18, 1918.
1. Bridge and building men have live convention. 9 p.

Vol. 65. No. 17. Oct. 25, 1918.
1. Southern Railway. 1½ p.
2. Forest fires take heavy toll in lives and property. 2¾ p.
3. Investigating old bridges for heavier loading. 2½ p.

Vol. 65. No. 18. Nov. 1, 1918.
1. Repairing a bascule bridge trunnion bearing. 2 p.

Vol. 65. No. 19. Nov. 8, 1918.
1. Soldiers build logging roads in spruce forests. 2½ p.

Vol. 65. No. 21. Nov. 22, 1918.
1. Strengthening a long steel viaduct on the C. & E. I. 2½ p.

Vol. 65. No. 22. Nov. 29, 1918.
1. Special foundation work for a railroad bridge. 2¾ p.
2. Transverse fissures and phosphorus streaks in rails. 1½ p.

Vol. 65. No. 23. Dec. 6, 1918.
1. The Rock Island builds two rainbow arch bridges. 1½ p.
2. Transverse fissures cause rail failures. 1½ p.

Vol. 65. No. 24. Dec. 13, 1918.
1. The reconstruction conference at Atlantic City. 6 p.
2. San Francisco's venture in railroad construction. 3½ p.

RAILWAY GAZETTE

Vol. XXIX. No. 14. Oct. 4, 1918.
1. Double-tracking the Union Pacific. 1½ p.

Vol. XXIX. No. 15. Oct. 11, 1918.
1. Railways in British Guiana. 2½ p.

Vol. XXIX. No. 16. Oct. 18, 1918.
1. Electric traction on the central Argentine Railway. 8½ p.
2. The railways of Japan. ½ p.

Vol. XXIX. No. 17. Oct. 25, 1918.
1. Railway operation in New South Wales and Canada. 1½ p.
2. New Grand Trunk Car Shops at Port Huron. 2½ p.

Vol. XXIX. No. 19. Nov. 8, 1918.
1. Single line interlocking on the New South Wales railways. 3 p.

Vol. XXIX. No. 20. Nov. 15, 1918.
1. Reinforced concrete flat slab bridges. 3 p.

Vol. XXIX. No. 21. Nov. 22, 1918.
1. Difficult bridge construction on the Hudson Bay Railway. 3 p.

RAILWAY MAINTENANCE EGINEER

Vol. 14. No. 11. November, 1918.
1. Rails or shells. 6¼ p.

Vol. 14. No. 12. December, 1918.
1. A study of wooden water tanks. 2½ p.
2. Labor saving devices for track maintenance. 2½ p.

RAILWAY REVIEW

Vol. 63. No. 16. Oct. 19, 1918.
1. Reinforced concrete ties on Southern Pacific. 1¼ p.
2. The bridge and building convention. 1½ p.
3. Essentials of bridge and building maintenance. 2 p.

Vol. 63. No. 17. Oct. 26, 1918.
1. Engineering of the St. Paul passenger terminal. 2 p.

Vol. 63. No. 18. Nov. 2, 1918.
1. Terminal shop and classification yard lighting. 2¾ p.
2. Use of soda ash in water softening. 2¾ p.

Vol. 63. No. 20. Nov. 16, 1918.
1. Electric welding nomenclature and symbolism. 5½ p.
2. Survey of Brazil's railways. 3 p.

Vol. 63. No. 21. Nov. 23, 1918.
1. Coal-handling plant of Virginian Railway. 4½ p.

SCHWEIZERISCHE BAUZEITUNG

Band LXXII. Nr. 14. 5. Okt., 1918.
1. Ueber Leistungsversuche an einer schnellaufenden Wasserturbine von 715 PS. 2½ p.
2. Zwillingsbogen-Brucke über die Rhone in Lyon. 1½ p.

Band LXXII. Nr. 15. 12. Okt., 1918.
1. Genauigkeit graphischer Triangulation. 2 p.
Band LXXII. Nr. 16. 19. Okt., 1918.
1. Genauigkeit graphischer Triangulation. 5 p.
Band LXXII. Nr. 17. 26 Okt., 1918.
1. Die elektrische Solothurn-Bearn-Bahn. 3 p.
Band LXXII. Nr. 18. 2 Nov., 1918.
1. Die elektrische Solothurn-Bern-Bahn. 3 p.

SCIENTIFIC AMERICAN

Vol. CXIX. No. 18. Nov. 2, 1918.
1. Earth roads and air roads (What the commercial airplane will mean in the development of our railways). 1 p.
Vol. CXIX. No. 21. Nov. 23, 1918.
1. Canada's new Niagara development (A 300,000 horse-power plant below the rapids). 1½ p.

SCIENTIFIC AMERICAN SUPPLEMENT

Vol. LXXXVI. No. 2234. Oct. 26, 1918.
1. How things break—II. (A study of the mechanism of fractures in materials). 1 p.
Vol. LXXXVI. No. 2235. Nov. 2, 1918.
1. The principal bridges of the world—I. (A comparison of their size, importance and principles of design). 2⅔ p.
Vol LXXXVI. No. 2238. Nov. 23, 1918.
1. Reinforced concrete trestles. (Unique viaducts substituted for steel construction). 1 p.
Vol. LXXXVI. No. 2241. Dec. 14, 1918.
1. Map making from the sky. (Camera now most important means of making war maps). 1½ p.

THE ENGINEER

Vol. CXXVI. No. 3276. Oct. 11, 1918.
1. Labour administration. No. IV. 1½ p.
2. Railway construction in the Near East. 1½ p.
3. British railways under war conditions. No. V. ⅔ p.
4. The resistance of metals to penetration under impact. ⅔ p.
Vol. CXXVI. No. 3277. Oct. 18, 1918.
1. British railways under war conditions. No. VI. 1 p.
2. Labour administration. No. V. 2 p.
3. Electric traction on the central Argentine Railway. 7⅓ p.
Vol. CXXVI. No. 3278. Oct. 25, 1918.
1. Electric traction on the Central Argentine Railway. 3⅓ p.
2. Labour administration. No. VII. 2⅓ p.
Vol. CXXVI. No. 3280. Nov. 8, 1918.
1. The Wilson Bridge at Lyons. 3 p.
2. Labour administration. No. VIII. 2 p.
Vol. CXXVI. No. 3281. Nov. 15, 1918.

1. British railways under war conditions. No. IX. 1 p.

Vol. CXXVI. No. 3282. Nov. 22, 1918.
1. Labour administration. No. IX. 2⅔ p.

Vol. CXXVI. No. 3283. Nov. 29, 1918.
1. Labour administration. No. X. 1⅓ p.
2. British railways und war conditions. No. X. 1 p.
3. The Kalka-Simla Railway and rolling stock. 4⅔ p.

THE FAR EASTERN REVIEW

Vol. XIV. No. 11. November, 1918.
1. New Japanese railways in Manchuria and Shantung. 4¾ p.

Vol. XIV. No. 12. December, 1918.
1. The relation of forests to floods. 5 p.
2. A scheme to improve the Canton River. 3½ p.
3. Public roads and motor vehicles in China. 1½ p.

Vol. XV. No. 1. January, 1919.
1. The projected Chefoo-Weihsien Railway. 3½ p.

THE INDIAN AND EASTERN ENGINEER

Vol. XLIII. No. 5. November, 1918.
1. Water power utilization in Ceylon. 2 p.

Vol. XLIII. No. 6. December, 1918.
1. Water power utilization in Ceylon. 2 p.

THE JOURNAL OF THE ENGINEER'S CLUB OF PHILADELPHIA

Vol. XXXV—11. No. 168. November, 1918.
1. A comparison between American and British practice in electric welding. 6 p.
2. Electric welding practice at the Submarine Boat Company's plant. 3 p.

Vol. XXXV—12. No. 169. December, 1918.
1. Electric welding pratice. 6 p.
2. Electric welding—A new industry. 7 p.
3. The port of Philadelphia. 2½ p.

THE RAILWAY ENGINEER

Vol. XXXIX. No. 465. October, 1918.
1. Stresses in permanent way. 2¾ p.

Vol. XXXIX. No. 466. November, 1918.
1. Stresses in permanent way. 2½ p.

WATER AND WATER ENGINEERING

Vol. XX. No. 238. October, 21, 1918.
1. Coast erosion and protection. 2½ p.