新刊紹介

土木學會誌　第六卷第四號　大正九年八月

Boulnois, H P.—Modern roads. 302 P., illustrated, 6×9, cloth. Edward Arnold, London. Price: 16 Shilling; $ 5.75 in United States.

Foerster—Taschenbuch für Bauinginieure. Dritte, verbesserte und erweiterte Auflage. 2247 Seiten mit 3070 Textfiguren. In zwei Teilen. Verlager von Julius Springer, Berlin. 1920. Preis geb. in einem Band 64 M., in zwei Bänden 70 M.

Mayers, C. W.—Estimating concrete buildings 51 p, illustrated. 6×9, cloth. Aberthaw Construction Co. Boston, Mass. Price: $ 1.

Paaswell, G.—Retaining walls; Their design and Construction. 225 P., 9 plates and 133 figures, 6×9, cloth. Mc Graw Hill Book Co., New York. Price: $ 4.

Schaper, G.—Eiserne Brucken. Vierte, verbesserte Auflage. Mit 1854 Textabbildungen. Verlag von Wilhelm Ernst & Sohn, Berlin. 1920. Preis geh. 46 M., geb. 50 M.

內外諸雜誌主要題目

Canadian Engineer

Vol. 38. No. 12. Mar. 18, 1920. 1. Hydro-electric development at St. Jerome, Que. By L. A. Wright. 3 p.

Vol. 38. No. 13. Mar. 25, 1920. 1. Field Survey troops; Their work at the front. By E. W. Berry. 3½ p. 2. Pressure of concrete against forms. By E. B. Smith. 2½ p.

Vol. 38. No. 14. Apr. 1, 1920. 1. Flood prevention projects to protect Winnipeg. By D. L. Mc Lean. 3 p.

Vol. 38. No. 15. Apr. 8, 15, 1920. 1. Proposed power developments near, Halifax. 2¾ p.

Vol. 38. No. 16. Apr. 1920. 1. Spillways in Nova Scotia proven inadequate. By K. G. Chisholm. 2 p. 2. Duties of a young engineer on the Construction of a hydro-electric plant. H. S. Slocurn. 9½ p.

Vol. 38. No. 17. Apr. 22, 1920. 1. Street railway permanent track construction. By C. C. Sutherland. 7½ p.

Vol. 38. No 18. Apr. 29, 1920. 1. New intake and Sedimentation basin at Sarnia. By F. W. Thorold. 3½ p.

Concrete and Constructional Engineering

Vol. XV. No. 4. April. 1920. 1. New formulae for the economical design of rectangular beams particularly as regards shear resistance. By Major John C. Gammon. 4 p. 2. Reinforced concrete sea walls on a treacherous clay foundation. By Prof. E. R. Matthews. 3p. 3. The causes of cracks in concrete pavements and how to prevent them. By A. E. Wynn. 2½ p. 4. The behaviour of reinforced concrete columns under fire test. Part II. By Walter. A. Hull. 1½ p. 5. Two interesting examples of reinforced concrete construction in America. 4 p.

Electric Railway Journal

Vol. 55. No. 13. Mar. 27, 1920. **1.** Maintenance account No. 12—Removing snow, ice and sand. By R. C. Cram. 3 p. **2.** Snow handling east and west. 2 p.

Vol. 55. No. 14. Apr. 3, 1920. **1.** The A. R. E. A. and electrification. 4 p. **2.** Stresses in railway track analyzed. 3p.

Vol. 55. No. 15. Apr. 10, 1920. **1.** Experience with automatic substations at Des Moines. By F. C. Chambers. 7 p. **2.** The future of the electric railway. By philip J. Keals. 3 p. **3.** Zone fare operation proves sucussful in Holyoke. 6 p.

Vol. 55. No. 16. Apr. 17, 1920. **1.** Details of safety devices used on safety cars. By Joseph C. Mc Cune. 5p. **2.** Brazed and welded bonds used in special trackwork. 3 p. **3.** Solid chrome nickel steel special trackwork. 2 p.

Vol. 55. No. 17. Apr. 24, 1920. **1.** The trolley car and city man—No. 1 of a New series. By Edward Hungerford. 7 p. **2.** The place of the bus in transportation service.—III. By Walter Jackson. 4 p. **3.** A Massachusetts Company starts bus operation. 2½ p.

Vol. 55. No. 18. May 1, 1920. **1.** Philip J. Kealy of Kansas City—and his job. By Edward Hungerford. 5 p. **2.** Brief reviews of the world's traction situation. 2 p. **3.** Methods for transporting 11,000,000 passengers. 3 p.

Vol. 55. No 19. May 8, 1920. **1.** Handling shipyard traffic at sparrows point, Baltimore, By L. H. Palmer. 6 p.

Engineering

Vol. CIX. No. 2826. Feb. 27, 1920. **1.** The "light railways" of the battle front in France By Frank G. Jonah. 3 p.

Vol. CIX. No. 2829. Mar. 19, 1920. **1.** The Armstrong shipyard. 3⅔ p. with 1 photo.

Vol. CIX. No.. 2831. Apr. 2, 1920. **1.** The Armstrong shipyard. 3½ p.

Engineering and Industrial Management

Vol. 3. No. 10. Mar. 4, 1920. **1.** Elongation at break as a measure of the tensile strength of welded bar. By R. Baumann. 1 p.

Vol. 3. No. 12. Mar. 18, 1920. **1.** Scientific Management. By Henry Atkinson. 3 p. **2.** Temperature measurements with special reference to thermocouples. By Maurice S. Gibb. 2 p.

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Engineering News-Record

Vol. 84. No. 13. Mar. 25, 1920. **1.** Location and structures of a heavy industrial railway. 9p. **2.** Strengthening a county bridge to carry motortruck traffic. By Morris Goodkind. 1½ p. **3.** Ocean pier to be Scrapped because of concrete disintegration. 3 p. **4.** Controversy over concrete-block tunnel construction. 3 p. **5.** Concrete-beam diagram with top and bottom steel. 1½ p.

Vol. 84. No. 14. Apr. 1, 1920. **1.** Construction and maintenance of the Ashokan highways. By George G. Honness. 5½ p. **2.** Reconstruction of the king hill siphons and flumes. 2½ p. **3.** Pressure of concrete on forms measured in tests. By E. B. Smith. 3 p.

Vol. 84. No. 15. Apr. 8, 1920. **1.** Topographic survey of the city of flint, Michigan. By C. S. Elicker. 3 p. **2.** Add interior braces and stirrups to concrete tankers. 4 p. **3.** Three double-leaf bascule bridges at Seattle, Wash. By F. A. Rapp. 5 p. **4.** Hudson vehicle tunnel discussed by Gen. Goethals. 3½ p.

Vol. 84. No. 16. Apr. 5. 1920. **1.** Soft ground complicates dry-dock construction. By Charles A. Lee. 4½ p. **2.** Design and operation of modern car-dump coal pier. 3½ p. with 1 plate. **3.** Heavy foundation work for bascule bridge at Seattle. By F. A. Rapp. 3 p. **4.** Hudson vehicle tunnel disigns and bidding methods. 2½ p.

Vol. 84. No. 17. Apr. 22, 1920. **1.** City planning progress in Detroit. ½ p. **2.** Planning transit development in Cleveland. By Henry M. Brinckerhoff. 3 p. **3.** Railway reclamation of damaged and old materials. 1 p. **4.** Kansas City water works capacity to be increased. ½ p. **5.** Progress on New Orleans inner harbor-navigation canal. By Marshall G. Findley. 3 p. **6.** Wood block pavement falls through contraction and flotation. By W. W. Horner. 2½ p. **7.** Concrete roadbed for track, tunnels and stations. 2½ p. **8.** A swing bridge accident of new kind; repair of the damage. 1½ p.

Vol. 84. No. 18. Apr. 29, 1920. **1.** Construction trestle plans and quantity tables. By F. J. Herlihy. 4 p. **2.** Progress and costs on Erie, Pa., flood control project. By Farley Gannett. 2½ p. **3.** St. Louis tunnels unwatered by air lift. By Edward E. Wall. 2 p. **4.** Altitude observation of the sun for meridian. By John D. Adams. 2 p.

Vol. 84. No. 19. May 6, 1920. **1.** Navy dirigible hangar at Lakehurst a huge structure. 5½ p. **2.** Embankment and concrete work for large oil reservoirs. 2¼ p. **3.** First year's operation of Washington's municipal garbage reduction works. By F. C. Bamman. 4 p.

Vol. 84. No. 20. May 13, 1920. **1.** Unwatering the lock site of New Orleans harbor Canal. By George R. Goethals. 3¾ p. **2.** Progress of the Major street plan in St. Louis. By Harland Bartholomew. 3½ p. **3.** Plan piers of record length for terminal at New York. 3 p.

Engineering World

Vol. 16. No. 6. April, 1920. **1.** Why Concrete floors are good and sometimes bad. 1½ p. **2.** Steel transmission line towers. By E. F. Gemmill. 6 p. **3.** Plan of Chicago's improved water system, 1920–1955. By P. S. Combs. 9. p.

Highway Engineer and Contractor

Vol. 2. No. 4. April, 1920. **1.** Mechanical equipment in highway construction—Part II. By K. H. Talbot. 4 p. **2.** Concrete highway construction. By A. N. Johnson. 5 p. **3.** The appearance of streets and highways. By Prof. Frederick N. Evans. 2½ p.

Industrial Management

Vol. LIX. No. 4. April, 1920. **1.** Time and job analysis in Management—I. By William O. Lichtner. 5 p.

Le Génie Civil

Tome LXXVI. No. 8. 21 Fév., 1920. **1.** Flotteurs en béton armé, systeme Christiani et Nielson, pour le renflouage des navires. 2 p.

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Tome LXXVI. No. 10. 6 Mars, 1920. **1.** Le metropolitain "Alphonse—XIII" de Madrid. Par J. Eugenio Ribera. 3½ p.

Tome LXXVI. No. 11. 13 Mars, 1920. **1.** Les locomotives électriques du Chemin de fer du Gothard (Suisse) Locomotives Monophasées de la Société Brown, Boveri et Cie. 4 p., 1 plate. **2.** Le nouvean cirque de Copenhagne, en béton armé. 2½ p.

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Railway Age

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Railway Review

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Vol. 66. No. 19. May 8, 1920. 1. St. Johns municipal terminal at Portland, Ore. 4p.

Schweizerische Bauzeitung

Band LXXV. No. 9. 28. Feb., 1920. 1. Die Wasserkraftanlage "Gösgen" an der Aare. 3½ p.

Band LXXV. No. 10. 6. März, 1920. 1. Die Wasserkraftanlage "Gösgen" an der Aare. 3p.

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Band LXXV. No. 16. 17. April, 1920. 1 Die Wasserkraftanlage "Gösgen" an der Aare. 6 p.

Scientific American

Vol CXXII. No. 13. March 27, 1920. 1. The Panama Canal today (The construction and operation of the great waterway between the Atlantic and Pacific). By J. Bernard Walker. 1½ p.

Vol. CXXII. No. 14. Apr. 3, 1920. 1. The electric railroad over the Rockies (completion of an additional link in the St. Paul's ambitions project). By B. S. Beach. 1 p.

The Engineer

Vol. CXXIX. No. 3350. March, 12, 1920. 1 The Swiss Rhone-Rhine navigation, No. II. 1 p.

Vol. CXXIX. No. 3353. Apr., 2, 1920. 1. The Swiss Rhone-Rhine navigation. No. IV. 2p.

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Vol. CXXIX. No. 3356. Apr. 23, 1920. 1. The new railways statistics. ½p. 2. Floors for railway under-bridges. No. II. 1½ p. 3. Coal conservation in the United Kingdom. 2 p.

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The Indian and Eastern Engineer.

Vol. XLVI. No 4. April, 1920. 1. Experiments on the horizontal pressure of sand. 1½ p.

The Journal of the Engineers' Club of Philadelphia

Vol. XXXVII-4. No. 185. April, 1920. 1. Electrical features of a modern steel plant. By R. B. Gerhardt. 11½ p.

The Military Engineer

Vol. XII. No. 62. March-April, 1920. 1. Multiple production of relief maps. By Louis M. Manheimer & Frank T. Fuller. 5 p. 2. Concrete caissons for breakwater construction. By

J. A. B. Tompkins. 12½ p. 3. Military road building not a science—only a job. By Ernest Graves. 8½ p. 4. Operating experiences at the Keokuk lock and dry dock. By M. Meigs. 13 p.

The Railway Gazette

Vol. XXXII. No. 10. Mar. 5, 1920. **1.** Coal handling plant, Virginian Railway. 2½ p.

Vol. XXXII. No. 12. Mar. 19, 1920. **1.** Automatic signalling on the Victorian Government railways. 5 p. **2.** A new 3,000 volt D. C. gearless electric passenger locomotive, Milwaukee & St. Paul Railways. 1½ p.

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Vol. XXXII. No. 17. Apr. 23, 1920. **1.** High street goods station, Glasgow, North British Railway Company. 4p., 1 plate.

The Road Maker

Vol. 14. No. 3. March, 1920. **1.** Putting across the Wayne county idea in Missouri. By Hon. O. W. Hackworth. 7 p. **2.** Road building in Helena county, Arkansas, lesson in cooperation. By George A. Sauford. 3p. **3.** Repairing 35 miles of road in a single day. By William W. Mc Clendon. 2p. **4.** Maintenance of good roads the vital problem. By W. O. Mc Cluskey, Jr. 1½ p. **5.** First-class road of bituminous Macadam. By J. E. Pennybacker. 2 p.

Vol. 14. No. 4. April, 1920. **1.** The road to Camp Knox. By Rodman Wiley. 2½ p. **2.** Wisconsin experience in road making. By A. R. Hirst. 3 p. **3.** Memorable road bond Campaign. By Erust Mc Gaffey. 1 p. **4.** Montana will build 1000 miles of gravel road in 1920. By John N. Edy. 2½ p.

Water and Water Engineering

Vol. XXII. No. 255. March 20, 1920. **1.** Meteorology and engineering. 2 p. **2.** Recent advances in utilisation of water power. By Eric M. Bergstron. 3½ p.