新刊紹介

土木學會誌　第六卷第二號　大正九年四月

内外諸雜誌主要題目

工學

第七卷　第二號（第七十號）　大正九年二月十日.　1. 籠負作業ニ就テ. 17頁.　2. 混凝土ノ配合ト其強度.（五）. 10頁.　3. 東京市ノ路面改良計畫. 5頁.　4. 水道用木管ニ就テ. 6頁.

第七卷　第三號（第七十一號）　大正九年三月十日.　1. 連續桁ノ諸解法. 9頁.　2. 寫眞測量. 6頁.　3. 鐵筋混凝土堰堤工事.（二）. 12頁.　4. 混凝土ノ配合ト其強度.（六）6頁.　5. 工事數土地買收方法.（二）13頁.

工業雜誌

第五十二卷　第六百七十號　大正九年二月二十日.　1. 針金索ニ就テ.（四）. 8頁.

第五十二卷　第六百七十一號　大正九年三月五日.　1. 針金索ニ就テ.（五）. 10頁.

帝國鐵道協會會報

第二十一卷　第二號　大正九年二月二十五日.　1. 西伯利亞ノ近狀ニ就テ. 14頁.　2. 改訂鐵道線路網計畫ニ就テ. 14頁.

第二十一卷　第三號　大正九年三月二十五日.　1. 最近ニ於ケル關邊ノ情況ニ就テ. 18頁.

Canadian Engineer

Vol. 37. No. 25. Dec. 18, 1919. **1.** Proposed development of Hamilton Harbor. 5½ p. **2.** $2.357,000 sewerage scheme recommended for Eastern part of York Township, Ont. 2 p.

Vol. 37. No. 26. Dec. 25, 1919. **1.** Mining methods and tunnelling at the front. 3 p. **2.** Economic values in sewage and sewage sludge. 4 p.

Vol. 38. No. 1. Jan. 1, 1920. **1.** Practical application of surface area method. 5½ p.

Vol. 38. No. 2. Jan. 8, 1920. **1.** Construction of high level bridge at Tansley. 3 p.

Vol. 38. No. 3. Jan. 15, 1920. **1.** Are Abrams' and Edwards' theories both wrong? 4½ p. **2.** Concrete in water works construction. 5 p.

Vol. 38. No. 4. Jan. 22, 1920. **1.** Present status of reinforced concrete design. 5 p.

Vol. 38. No. 5. Jan. 29, 1920. **1.** Provisional working stress for steel columns. 1½ p.

Vol. 38. No. 6. Feb. 5, 1920. **1.** Flow in uniform channels when the water-surface in not parallel to the invert. 1 p. **2.** Watershed leakage in relation to gravity water-supplies. 3½ p.

Vol. 38. No. 7. Feb. 12, 1920. **1.** Engineering battalions: Their work in the war. 4 p. **2.** Joint commission to study St. Lawrence scheme. 1½ p.

Vol. 38. No. 8. Feb 19, 1920. 1. Water supply of an army division in Palestine. 3 p. 2. Development of Saskatchewan's highway system. 4 p.

Concrete and Constructional Engineering

Vol. XIV. No. 12. December, 1919. 1. New coaling pier at Woolwich Arsenal. 3 p. 2. The Concrete Institute. 4. p. 3. Bettering concrete by a new mixing method. 6 p. 4. Concrete track supports. 7 p. 5. Recent British patents relating to concrete. 4 p.

Contracting

Vol. 9. No. 8 Dec. 15, 1919. 1. High class pontoon building. 2 p. 2. Essentials of inportant construction. XXXVIII. 2½ p.

Vol. 9. No. 9. Jan. 1, 1920. 1. Huffman Dam outlet. 2 p. 2. Knots and hitches. 1½ p.

Electric Railway Journal

Vol. 55. No. 2. Jan. 10, 1920. 1. Maintenance of way for street railway properties. 4½ p.

Vol. 55. No. 3. Jan. 17, 1920. 1. Melbourne suburban railways electrified. Part II. 6½ p. 2. What are the causes of the rails wearing out? 6 p. 3. Purchasing track spikes under specifications. 2 p.

Vol. 55. No. 4. Jan. 24, 1920. 1. Facilities for handling Coney Island's crowds. 3 p.

Vol. 55. No. 5. Jan. 31, 1920. 1. Freight and parcel service in the United Kingdom. 4 p.

Vol. 55. No. 6. Feb. 7, 1920. 1. Operating practices on London's underground railways. 8 p.

Engineering

Vol. CVIII. No. 2812. Nov. 21, 1919. 1. Hell Gate bridge, New York. 4 p. with 4 plates.

Vol. CVIII. No. 2813. Nov. 28, 1919. 1. Magnetic and mechanical testing of iron. 3½ p. 2. The study of flotation. 1½ p.

Vol. CVIII. No. 2817. Dec. 26, 1919. 1. Influence lines applied to arch design. 3 p.

Vol. CIX. No. 2818. Jan. 2, 1920. 1. Estimating river flow from rainfall records. 1 p. 2. The Melbourne suburban railway electrification. 6½ p.

Vol. CIX. No. 2821. Jan. 23, 1920. 1. Fluid motion and viscosity. 2 p.

Vol. CIX. No. 2822. Jan. 30, 1920. 1. The distribution of air pressure and wind velocity about the funnel of a vessel at sea. 2 p. 2. Magnetic and mechanical testing of iron. 1 p.

Vol. CIX. No. 2823. Feb. 6, 1920. 1. Primary stress determination in space frames. 4 p 2. Recent advances in utilisation of water power. 7 p.

Engineering News-Record

Vol. 83. No. 1. July 3, 1919. 1. Special design features and erection methods. 4 p. 2. Engine terminal improvements: Pennsylvania Lines West. 4 p. 3. Spillway capacities required for reservoirs in Western United States. 4½ p.

Vol. 83. No. 2. July 10, 1919. 1. The relative economy of freight transport by railway and motor truck. 16 p. 2. Concentrated load tests of Yellow-pine beams for shear. 2½ p. 3. Union Station is rebuilt without interrupting traffic. 3½ p.

Vol. 83. No. 3. July 17, 1919. 1. Dam foundation placed by suspended pneumatic caissons. 3 p. 2. Concrete pipe fails from unequal expansion of shell. 2 p. 3. Dam supported by bascule bridge closes canal lock. 2 p. 4. American engineers make records in bridging the Rhine. 1 p.

Vol. 83. No. 4 July 24, 1919. 1. Harbor facilities and development at Houston, Texas. 3½ p.

2. Diagrams for excess loss of head in pipe lines. 1½ p. 3. Report on Cleveland rapid transit recommends street car loop subways. 3½ p. 4. Backfilling tunnel through holes bored from surface. 2 p. 5. Steel and concrete framing combined for economy. 4 p.

Vol. 83. No. 5. July 31, 1919. 1. Handling vegetable oils at Pacific coast port terminals. 3 p. 2. Test of sandy foundations at arch bridge pier. 2. p. 3. Substructure of Michigan avenue bascule bridge, Chicago 3 p. 4. Chicago $ 140,000,000 lake-front improvement plans. 1 p. 5. Some tests on the properties of reinforced concrete. 4 p. 6. Sewage and dissolved oxygen in New York Harbor. 2 p. 7. Sinking a long board mattress in a narrow channel. 1 p.

Vol. 83. No. 7. Aug. 14, 1919. 1. New construction methods in subway work under Philadelphia City Hall 9 p. 2. Navy concrete barges side-launched 1 p. 3. Miami flood work involves radical railway changes. 2½ p. 4. Bolts in field connections of steel-frame buildings; a study of data and experience. 6 p.

Vol. 83. No. 8. Aug. 21, 1919. 1. Construction details of the Lindsay-Strathmore irrigation district. 4 p. 2. High cost of maintenance of light macadam highways. 2½ p. 3. Block Yard chcaplp improvised from old equipment 2 p. 4. Extraordinary repairs made to a 1900-ton drawbridge. 3 p. 5. Hydraulicking dam embankment on Miami flood-control project. 2½ p. 6. Sewage-treatment works at Langley field, Virginia. 4 p.

Vol. 83. No. 9. Aug. 28, 1919. 1. Paving of streets and aisles, Brooklyn army supply base. 3 p. 2. Timber bridge problems on the Alaska railway. 2 p. 3. Mechanical method for determining reactions in continuous girders. 1 p.

Vol. 83. No. 10. Sept. 4, 1919. 1. Concrete wall construction is continuous process. 2 p. 2. Large train-shed raised without interruption of traffic. 2 p. 3. Fundamentals in the design of a multiple-arch dam. 5 p. 4. Investigation of odors from lake at Madison Wis. 1 p. 5. Operating methods and results on the Lindsay-Strathmore irrigation district. 4½ p.

Vol. 83. No. 11. Sept. 11, 1919. 1. Rapid concreting a feature of big portsmouth dry dock. 2½ p. 2. Wind pressure on cylindrical structures in practice. 3½ p. 3. Precast members used for British concrete barges. 1½ p. 4. "Compression" wood and failure of factory roof-beam. 1⅜ p.

Vol. 83. No. 12. Sept. 18, 1919. 1. Drainage works of the Rio Grande irrigation project. 7 p. 2. Freight handling at the Brooklyn army base. 5½ p. 3. Highway bridge floor replaced after corrosion. 2½ p. 4. Deflection of continuous beams and rigid frames. 1¼ p. 5. Groined arches or flat roof for concrete reservoirs. 2 p. 6. Tests of lime-electrolytic-agitation sewage-treatment process at Easton, Pennsylvania. 4½ p.

Vol. 83. No. 13. Sept. 25, 1919. 1. Constructing a 98-Kilometer water conduit in Chile. 6½ p. 2. Computation of the coefficient of discharge of venturi meters. 2¼ p. 3. Headgates combined with bridge over aqueduct canal. 2 p. 4. Extending the Galveston sea wall. 3 p.

Vol. 83. No. 14. Oct. 2, 1919. 1. Concreting procedure on Miami flood-control dam. 4 p. 2. Unusual design and joint details of 430-foot bridge. 2 p. 3. Wind pressures and wind stresses in tower design. 4¼ p.

Vol. 83. No. 15. Oct. 9, 1919. 1. Bridge engineering in active warfare. 9 p. 2. French airship sheds built of framed concrete. 2 p. 3. Reinforced concrete pipe made by the centrifugal process. 1 p.

Vol. 83. No. 16. Oct. 16, 1919. 1. Heavy double trestle for building cranes over Newport News battle-cruiser berths. 5 p. 2. Bridge engineering in active warfare. II. 8 p.

Vo. 83. No. 17. Oct. 23, 1919. 1. The railway problem. 7 p. 2. Highest chimney built for smelter at Anaconda, Montana. 1½ p.

Vol. 83. No. 18. Oct. 30—Nov. 6, 1919. 1. An appraisal of modern plant performance in concrete road construction. 4 p. 2. The railway problem—II. 8 p.

Vol. 83. No. 19. Nov. 13—20, 1919. 1. The tidal storm at Corpus Christi and its effect on engineering structures. 5 p. 2. Paving brick manufacturers seek specification changes. 1 p. 3. The American highway problem. 5 p. 4. Pearl Harbor dry dock pump well large precast unit. 3½ p. 5. New type of wood and asphalt flooring for Chicago bridges. 1½ p. 6. A diagram adaptation of the rational method of Storm-water drain design. 5 p. 7. Niagara railway arch reinforced for heaviest traffic. 4½ p 8. Lowering a 400-ton dock caisson gate with sand jacks. 4½ p.

Vol. 83. No. 20. Nov. 27—Dec. 4, 1919. 1. Concrete shipping pier at Panama has novel design. 5 p. 2. Determination of Kutter's roughness in a drainage ditch. 2 p. 3. Wide bridge built as two bridges without interval. 2 p.

Vol. 83. No. 21. Dec. 11—18, 1919. 1. Bituminous Macadam is successful in Rhode Island. 8½ p. 2. Earth slips prove disastrous to open-cut sewers. 2 p. 3. Jackson Lake dam the

savior of the Snake River Valley. 2½ p. 4. Construction progress on Canadian Niagara power project. 3 p.

Vol. 83. No. 22. Dec. 25, 1919. 1. Study of pressures in hydraulic dam cores. 4½ p. 2. Largest barge canal terminal opened in New York City. 4½ p. 3. Longest single leaf bascule bridge: Chicago River. 5 p. 4. Steam shovel digs sewer trench in narrow space. 2½ p.

Vol. 84. No. 1. Jan. 1, 1920. 1. Developments in 1919 in the Use of machinery for highway construction. 2½ p. 2. What is the future of inland water transportation?—Part I. 9½ p. 3. Concrete road contract has plant for rapid progress. 2½ p. 4. Holding power of track spikes. 1½ p.

Vol. 84. No 2. Jan. 8, 1920. 1. Building a hydro-electric plant in Afghanistan. 4½ p. 2. Unique plant concrete seven-span arch bridge. 3 p. 3. Gravity freight yard for Michigan Central Railroad. 4 p. 4. Structural design of caisson gates for drydocks. 2½ p.

Vol. 84. No. 3. Jan. 15, 1920. 1. Pipe sprinkler system for long bridge. ½ p. 2. Steel pipe floated to place, sunk and bolted under water, to form outfall. 1 p.

Vol. 84. No. 4. Jan. 22, 1920. 1. Deep substructure of assay office built in quicksand by caisson-inclosure method. 4 p. 2. Largest derrick built to erect great hammerhead crane. 2 p. 3. Foundation troubles of Portland City grain elevator. 3½ p. 4. Municipal grain and freight port terminal at Portland, Ore. 3 p. 5. What is the future of inland water transportation?—Part IV. 8 p.

Vol. 84. No. 5. Jan. 29, 1920. 1. Rotary snowplows clear streets in Canadian Cities. 1½ p.

Vol. 84. No. 6. Feb. 5, 1920. 1. Charts tell cost of concrete paving. 4 p. 2. Asphaltic concrete laid on gravel base. 3¼ p.

Vol. 84. No. 7. Feb. 12, 1920. 1. Plan to regulate great lakes level by Niagara Dam. 6 p. 2. Mucking with steam shovel speeds up tunnel driving. 1½ p. 3. Loading test of 18 ft. circular concrete grain bin. 1½ p. 4. Longest concrete arch span being built at Minneapolis. 1 p.

Vol. 84. No. 8. Feb. 19, 1920. 1. Largest American shield tunnel designed to carry vehicular traffic under Hudson River. 8 p. 2. Clay blanket stops leakage in earth dam. 1½ p. 3. Simple solutions of compound curve problems. 1 p.

Engineering World

Vol. 16. No. 1. Jan. 1, 1920. 1. Bascule bridge, largest of its type, built over the Chicago River. 3½ p. 2. Mechanical handling is one of the big problems of today. 2 p. 3. Plans for increasing Baltimore's water supply. 3½ p.

Vol. 16. No. 2. Jan. 15, 1920. 1. Harrison, New Jersey, sewer—Pneumatic method employed in constructing sewer proves economical. 3 p. 2. Shandaken Tunnel for the Catskill watershed for New York City. 7 p. 3. Treating concrete surfaces. 3½ p. 4. Effect of calcium sulphate on cement. 5 p.

Vol. 16. No. 4. Feb. 15, 1920. 1. Concrete dam construction for irrigation district. 2½ p. 2. Imhoff sewage digestion tank operation. 2½ p.

Highway Engineer and Contractor

Vol. 2. No. 1. January, 1920. 1. Concrete balustrades and railings for highway bridges. 5 p. 2. Maintaining and painting highway bridges. 2 p. 3. Financing highway improvements. 2½ p. 4. Impact tests on highway surfaces. 5 p.

Vol. 2. No. 2. February, 1920. 1. Asphalt concrete pavements in McKinney, Texas. 2 p. 2. Mineral aggregate for bituminous pavements. 5 p. 3. Motor vehicle traffic requires the best foundations. 1½ p. 4. Bridges for moter traffic. 2 p.

La Houille Blanche

18e Année No. 35-36. Nov.—Déc., 1919. 1. Détermination du Volume d'un Réservoir naturel. 5½ p. 2. L'Aménagement de nos Forces hydrauliques. 1½ p.

Le Génie Civil

Tome LXXV. No. 25. 20 Déc., 1919. **1.** La culture mécanique en 1919. Les démonstrations de Saint-Germain et de Senlis. 6 p. **2.** Les essais physiques, statiques et dynamiques des bois de construction et d'aviation. 4 p.

Tome LXXV. No. 26. 27 Déc., 1919. **1.** La culture mecanique en 1919. Les démonstrations de Saint-Germain et de Senlis. 4 p. **2.** Les essais physiques, statiques et dynamiques des bois de construction et d'aviation. 4 p.

Railway Gazette

Vol. XXXI. No. 24. Dec. 12, 1919. **1.** The Madrid "Metro." 3 p.

Vol. XXXI. No. 25. Dec. 19, 1919. **1.** Light railway working on the Western front. 6½ p.

Vol. XXXI. No. 26. Dec. 26, 1919. **1.** Federated Malay States railways. 2½ p. **2.** The Rechborough transportation depôt. 11½ p. with 2 plates.

Vol. XXXII. No. 1. Jan. 2, 1920. **1.** Electrification of Melbourne suburban railways. 4½ p.

Vol. XXXII. No. 3. Jan. 16, 1920. **1.** Modern Armies and modern transport. 2 p.

Vol. XXXII. No. 4. Jan. 23, 1920. **1.** The railway disaster at Vigerslev, Denmark. ½ p. with 1 photo.

Vol. XXXII. No. 6. Feb. 6, 1920. **1.** A railway break down crane. 1½ p.

Railway Maintenance Engineer

Vol. 16. No. 1. Jan., 1920. **1.** A conclusive record for creosoted piles. 2½ p.

Vol. 16. No. 2. Feb., 1920. **1.** The menace of the marine borer. 4 p. **2.** The cause and prevention of rail creeping. 2½ p. **3.** A new type of river current retards. 3 p.

Schweizerische Bauzeitung

Band LXXIV. No. 23. 6. Dez., 1919. **1.** Zum Obmannamt-Durchbruch in Zürich. 3½ p.

Band LXXIV. No. 24. 13. Dez., 1919. **1.** Die Erweiterung des Hauptbahnhofs Zürich. 4½ p.

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Band LXXV. No. 5. 31. Jan., 1920. **1.** Die Gemeindestrasse Schüpfheim-Flühli durch die Lammschlucht im Kanton Luzern. 5 p.

Scientific American

Vol. CXXII. No. 1. Jan. 3, 1920. **1.** The New York State Barge Canal. I. (World's greatest inland canal now connets the great lakes with the Atlantic Ocean). 2 p.

Vol. CXXII. No. 2. Jan. 10, 1920. **1.** The New York State Barge Canal. II. 2 p.

Vol. CXXII. No. 3. Jan. 17, 1920. **1.** The Alaskan railways. (How construction and operation stand today in our northern territory). 1½ p.

Vol. CXXII. No. 4. Jan. 24, 1920. **1.** The New York State Barge Canal. III. 2 p.

Vol. CXXII. No. 5. Jan. 31, 1920. **1.** The New York State Barge Canal. IV. 2 p.

Vol. CXXII. No. 6. Feb. 7, 1920. **1.** Chicago's giant bascule bridge. ½ p.

Scientific American Monthly

Vol. I. No. 1. January, 1920. **1.** A pendulum-type testing apparatus. (Testing potassium chlorate explosive at the U. S. Bureau of Mines). 3 p.

The Engineer

Vol. CXXVIII. No. 3338. Dec. 19, 1919. **1.** The problem of the canals. 1 p. **2.** Heavy motor vehicles in relation to roads. 1½ p.

Vol. CXXIX. No. 3340. Jan. 2, 1920. **1.** Water supply and sanitary engineering in 1919. 2 p.

Vol. CXXIX. No. 3341. Jan. 9, 1920. **1.** Electrification of Melbourne suburban railways. 3½ p.

Vol. CXXIX. No. 3342. Jan. 16, 1920. **1.** The gyroscopic compass: A non-mathematical treatment. 3 p. **2.** Electrification of Melbourne suburban railways No. II. 3½ p.

Vol. CXXIX. No. 3343. Jan. 23, 1920. **1.** The gyroscopic compass: A non-mathematical treatment. No. II. 2 p.

Vol. CXXIX. No. 3344. Jan. 30, 1920. **1.** The gyroscopic compass: A non-mathematical treatment. No. III. 3 p. **2.** Ipswich dock extensions. 1 p.

Vol. CXXIX. No. 3345. Feb. 6, 1920. **1.** Irrigation and cotton growing in Mesopotamia. 2½ p. **2.** The gyroscopic compass: A non-mathematical treatment. 2 p.

The Far Eastern Review

Vol. XV. No. 11. Nov., 1919. **1.** The development of China's central provinces. 6 p. **2.** Remarkable development in mohammedanism in Western China. 4 p.

Vol. XVI. No. 2. Feb., 1920. **1.** Gigantic works needed on the Yangtze. 7½ p. **2.** Reclamation in Hongkong. 2 p. **3.** Engineering features of new extensions on Japan's railways. 7 p. **4.** The flood problem at Canton. 5 p.

Water and Water Engineering

Vol. XXI. No. 252. Dec. 20, 1919. **1.** Iron bacteria. 2 p. **2.** The repair of a service reservoirs damaged by mining. 3 p. **3.** Hydraulic alignment diagrams. 2 p. **4.** The Madras City waterworks. 9½ p. **5.** Flow in uniform channels when the water surface is not parallel to the invert. 1½ p.

Vol. XXII. No. 253. Jan. 20, 1920. **1.** The Dartmoor water-power scheme. 1½ p. **2.** The Sill water power station of the Town of Innsbruck. 3½ p.