新刊紹介

土木學會誌 第六卷第三號 大正九年六月

Boulnois, H. P.—Modern roads. 302 P., illustrated, 6×9, cloth. Edward Arnold.

Chapman, R. W.—The elements of astronomy for surveyors. 247 P., illustrated, 5×8, cloth. Charles Griffin, London.

Dolezalek.—Der Eisenbahntunnel. Mit 422 Textabbildungen. Urban & Schwarzenberg, Berlin und Wien, 1919, Preis: geb. 17 M., geh. 15 M.

Eddy, H. T. & Turner, C. A. P.—Concrete-steel construction, Part I—Buildings. 502 P., illustrated, 6×9, cloth. Minneapolis, Minn.: The Authors. Price: $ 10.00.

Egerer, H.—Ingenieur Mechanik. Erster Band: Graphische Statik starrer Körper. Mit 624 Textabbildungen, sowie 238 Beispielen und 145 vollständig gelösten Aufgaben. Julius Springer, Berlin. 1919. Preis: geh. M. 15.40, geb. 17.60.

Glaser, P. E.—Berechnung von Rahmenkonstruktionen und statisch unbestimmten Systemen des Eisen-und Eisenbetonbaues, Mit 112 Textabbildungen. Julius Springer, Berlin. 1919. Preis; geh. 5 M.

Kleinlogel, A.—Rahmenformeln. 227 Rahmen Fälle mit 415 Abbildungen, Zweite, neubearbeitete und erweiterte Auflage. Wilhelm Ernst & Sohn, Berlin. 1919. Preis: geh. 20 M., geb. 23 M.

Lévy-Salvador, P.—Le rôle de l'utilisation des chutes d'eau dans l'extension de l'activité industrielle et agricole Un volume in-8° de 112 P., avec 14 figures. H. Dunod et E. Pinat, editeurs, Paris. Prix (Majoration comprise): 9 francs.

Matthews, E. R.—Studies in the construction of dams. 43 P., illustrated, 6×9, paper. Charles Griffin & Co., London.

Mead, D. W.—Hydrology. 647 P., illustrated, 6×9, cloth. Mc Graw-Hill Book Co., New York.

Rosa, E. B.—Electrolysis in concrete. 142 P., illustrated, 7×10, paper. Technologic papers of the Bureau of Standards. No. 18. Washington, D. C. Price: 35 c. from superintendent of documents.

Schulze, J.—Grundwasser-Abdichtung. Wilhelm Ernst & Sohn, Berlin. 1919. Preis: geh. 4 M.

Shepard, E. R.—Modern practice in the construction and Maintenance of rail joints and bonds in electric railways, 131 P., illustrated, 7×10, paper.

Tedesco—Cours de ciment armé à l'usage de tous. Un volume in-8° de 145 P. avec 33 figures. Prix: 9 francs.

Thomas, R. G.—Applied calculus. 490 P., illustrated, 5×8, flexible cover. D. Van Nostrand Co., New York.

White, A. V. Water powers of British Columbia Including a review of water power legislation relating thereto and a discussion of various Matters respecting the utilization and conservation of inland waters. 644 P., illustrated, 7×10, cloth; folding maps in pocket.

Loads on highway bridge.—Report of the Joint Committee, consisting of representatives of the Concrete Institute, The Institution of Municipal and Country Engineers, and the Institution of Municipal Engineers with appendices by Henry Adams and H. Kempton Dyson, E. & F. N. Spon, Ltd., London, S. W. Price: 2/6 net.

內外諸雜誌主要題目

Annales des Ponts et Chaussées.

89e Année. Tome LI. Vol. IV. Juillet-Août 1919. 1. Note sur propagation des crues et

leur prévision journalière. 29 p. 2. Voies urbaines à forte déclivité. 8 p.

89e Année. Tome LII. Vol. V. Sept.—Oct., 1919. 1. Aménagement de l'outillage et des voies à l'arrière de quelques postes maritimes intensifs. 46 p. 2. Périodiques francais et étrangers.

89e Année. Tome LIII. Vol. VI. Nov.—Déc., 1920. 1. Le pont de Mesdoura; le pont de l'Oued-Beth et les ouvrages de la région de Fès. 105 p. 2. Note au sujet des formules d'exploitation des chemins de fer d'intérêt local, des tramways et des services de transports automobiles. 8 p.

Bulletin American Railway Engineering Association

Vol 21. No. 221. November, 1919. 1. Report on track. 25 p. 2. Report on electricity. 83 p. 3. Report on economics of railway location. 18 p.

Vol. 21. No. 222. December, 1919. 1. Wood preservation. 43 p. 2. Ballast 45 p.

Canadian Engineer

Vol. 38. No. 9. Feb. 26, 1920. 1. Three bridges in Palestine built by Canadians. 2½ p. 2. Some experiences in foundation failures. 1½ p.

Vol. 38. No. 10. Mar. 4, 1920. 1. Design of York township sewerage system. 3¼ p.

Vol. 38. No. 11. Mar. 11, 1920. 1. Mechanical handling of gravel or broken stone. 2 p. 2. Street paving in towns and villages. 2 p.

Concrete and Constructional Engineering

Vol. XV. No. 1. January, 1920. 1. The Dalmarnock Power Station, Glasgow. 13 p. 2. Reinforced concrete bunkers and water tower. 9 p.

Vol. XV. No. 2. February, 1920. 1. Rigid reinforced concrete frames. 4 p. 2. The main road from Newport to Cardiff. 5 p. 3. The first reinforced concrete freight car. 2 p. 4. Modern methods of concrete construction. 3 p. 5. Reinforced concrete sewers and conduits. 4 p.

Vol. XV. No. 3. March, 1920. 1 Retaining walls for large buildings. 6 p. 2. Rigid reinforced concrete frames. 4½ p. 3. The North Eastern Railway sleepers. 1½ p. 4. The construction of the best concrete highway in Canada. 6 p. 5. Design for a water tower. 5 p 6. The behaviour of reinforced concrete columns under fire test. 6 p. 7. The attrition of concrete surface exposed to sea action. 8 p.

Electric Railway Journal

Vol 55. No. 7. Feb. 14, 1920.
1. Handling greater power station load with fewer men. 2 p. 2. Neglected opportunities in railway transportation. 5 p. 3. Present status of standard track spirals. 3½ p.

Vol. 55. No. 8. Feb. 21, 1920. 1. Materials used in railway car construction-wood. 4 p. 2. Renewing railway crossings and special work. 2½ p. 3. Why electrification has become an economic necessity. 7 p.

Vol. 55. No. 10. Mar. 6, 1920. 1. Brooklyn transit system adopts surface car trains. 3½ p.

Vol. 55 No. 11. Mar. 13, 1920. 1. Noiseless features of a simply constructed substation. 2 p.

Vol. 55. No. 12. Mar. 20, 1912 1. Maintenance practice of the Anglo Argentine tramway.—I. 4½ p. 2. Low-first-cost low-maintenance-cost track. 1½ p. 3. Track construction from the paving standpoint. 2 p.

Engineering

Vol. CIX. No. 2819. Jan. 9, 1920. **1.** Simple stress diagram for rolling loads. 1 p. **2.** Stress distribution in engineering Materials. 3 p.

Vol. CIX. No. 2824. Feb. 13, 1920. 1. Recent advances in utilisation of water power. 6 p.

Vol. CIX. No. 2825. Feb. 20, 1920. 1. The theory of the Michell thrust bearing. 3⅛ p. **2.** Some water supply problems. 1 p. **3.** Photo-elastic and strain measurements of the effects of circular holes on the distribution of stress in tension members. 4½ p.

Vol. CIX. No. 2828. Mar. 12, 1920. **1.** Engineering education at University College, London. 3 p.

Engineering and Industrial Management

Vol. 2. No. 21. Nov. 20, 1919. **1.** The handling and testing of materials. 2 p.

Vol. 2. No. 24. Dec. 11, 1919. **1.** The protection of hoists. 2 p.

Vol 2. No. 25. Dec. 18, 1919. **1.** The progress of scientific Management. 2½ p. **2.** The design of stop-valves for high-pressure steam. 1 p.

Vol. 2. No. 26. Dec. 25, 1919. **1.** What it pays to know about lubricants. 1⅛ p.

Vol. 3. No. 2. Jan. 8, 1920. **1.** Structural steel for bridges and building construction. 1 p.

Vol. 3. No. 3. Jan. 15, 1920. **1.** Portable stacking devices used in goods-sheds and warehouses. 3 p.

Vol. 3. No. 8. Feb. 19, 1920. **1.** Scientific management. 3 p.

Vol. 3. No. 9. Feb. 26, 1920. **1.** The theory and practice of lubrication. 2 p. **2.** Specialisation in design of labour-saving machines. 4 p. **3.** Coal and ash handling plant of the Newport power station, Melbourne. 5 p. **4.** Modern methods for handling barium products at an American works. 1½ p. **5.** Gravity shoots. 2 p.

Vol. 3. No. 11. Mar. 11, 1920. **1.** The road to prosperity. 2 p. **2.** Automatic weighing machines. 4 p. **3.** Gravity shoots. 2 p.

Engineering News-Record

Vol. 84 No. 9. Feb. 26, 1920. **1.** New studies of railway track; counterbalance effect and behavior of tie and ballast. 7½ p. **2.** How the province of Quebec controls its water power. 3½ p. **3.** Longest concrete girder bridge is built in California. 2¾ p.

Vol. 84. No. 10. Mar. 4, 1920. **1.** Anchor pins of cornwall cantilever bridge bored out and renewed. 3½ p. **2.** Designing concrete columns with cast-iron core. 1½ p. **3.** Utilizing old macadam to increase width of concrete road. 2½ p. **4.** Concrete shear values proposed to Concrete Institute. 4¼ p. **5.** Design details and field methods on thin arch dam. 3 p.

Vol. 84. No. 11. Mar. 11, 1920. **1.** New York Central Railroad accommodates itself to construction of Barge Canal. 6¼ p. **2.** New engine terminal for Lehigh Valley railroad. 2½ p. **3.** Twenty years of reinforced-concrete railway ties. 5 p. **4.** Reconstruction Poughkeepsie cantilever bridge for heavy traffic. 6½ p.

Vol. 84. No. 12. Mar. 18, 1920. **1.** Planning and progress on a big construction job. 7 p. **2.** A new salary schedule urged for engineers in federal service. 2 p. **3.** Passengers and freight carried more cheaply by motor transport than by railway. 3½ p. **4.** Resurveys of old railway lines. 2¼ p.

Engineering World

Vol. 16. No. 5. March, 1920. **1.** Moving earth with steam shovel and hydraulic giants. 5 p. **2.** Drainage and irrigation projects in Oregon. 2 p. **3.** Better railway grade crossings being promoted. 1 p.

Highway Engineer and Contractor

Vol. 2. No. 3. March, 1920. 1. Mechanical equipment in highway construction. 5½ p. 2. Developments in brick pavements. 4½ p. 3. Reinforced concrete highways. 4 p.

Industrial Management

Vol. LIX. No. 1. January, 1920. 1. Coal handling equipment of the "Old Hickory" power plant. 5½ p.

Vol. LIX. No. 2. February, 1920. 1. Applications of electric arc welding. 7½ p.

Journal of the Western Society of Engineers

Vol. XXV. No. 2. Jan. 20, 1920. 1. City zoning. 6 p. 2. Comparative economics of cantilever and suspension bridges; Economic span lengths for simple-truss bridges on various types of foundation. 3 p.

Vol. XXV. No. 3. Feb. 5, 1920. 1. Wood block paving. 20 p. 2. City Zoning in Chicago. 20 p.

Vol. XXV. No. 4. Feb. 20, 1920. 1. Functions and work of the resident engineer on bridge construction. 21 p.

La Houille Blanche

19e Année. No. 37-38. Jan.—Féb., 1920. 1. A propos de l'Irrigation. 6 p 2. L'Etude des Coups de Bélier dans les Canalisations métalliques sous pression. 6 p.

Le Ciment

No. 1. Janvier 1920. 1. Notes sur la fabrication du ciment Portlandartificiel. 6½ p. 2. Calcul géométrique du Beton Armé. 4 p. 3. Construction des murs de quai du port de Marseille. 2 p.

No. 2. Février 1920. 1. Notes sur la fabrication du ciment Portlandartificiel. 7 p.

Le Génie Civil

Tome LXXVI. No. 1. 3 Jan., 1920. 1. Les coups de bélier dans les conduites forcées et les moyens de les combattre dans les usines hydroélectriques. 3½ p.

Tome LXXVI. No. 2. 10 Jan., 1920. 1. Les coups de bélier dans les conduites forcées et les moyens de les combattre dans les usine hydroélectriques. 4 p.

Tome LXXVI. No. 3. 17 Jan., 1920. 1. L'extension du port de Marseille et l'aménagement des étange de Berre et de Caronte. 8½ p.

Tome LXXVI. No. 4. 24 Jan., 1920. 1. Les installations nouvelles exécutées pendant la guerre dans le port de Nantes et la Loire maritime. 2 p.

Tome LXXVI. No. 6. 7 Feb., 1920. 1. Utilité et applications de la mesure des précipitations atmosphériques. 3 p.

Tome LXXVI. No. 7. 14 Feb., 1920. 1. L'outillage mécanique des ports. Les appareils de manutention des minerais et des charbons aux Etats-Unis. 9 p. 2. Etude theorique d'une usine actionnée par la marée. 2 p.

Municipal Journal and Public Works

Vol. XLVIII. No. 1. Jan. 3-10, 1920. 1. St. Louis Water purification plant operation. 2½ p.

Vol. XLVIII. No. 2. Jan. 17-24, 1920. 1. Sewering war-time housing developments. 3 p.

Vol. XLVIII. No. 3. Jan. 31, 1920. 1. Twin falls water purification plant. 2½ p.

Public Works

Vol. 48. No. 6. Feb. 21, 1920. 1. Self-supporting arch rib erection. 2 p. 2. Drag line rock excavation for large dams. 2 p.

Vol. 48. No. 7. Feb. 28, 1920. 1. Bridge arch center trusses. 4 p. 2. Water front foundation in Montreal. 1¼ p.

Vol. 48. No. 8. Mar. 6, 1920. 1. Building the Hartford filter. 3½ p. 2. Hetch-Hetchy water supply. 3 p. 3. Stream gauging, method and used. 2 p. 4. Resurfacing asphalt pavements in New York. 3 p. 5. Skin friction and bearing of piles. 1½ p.

Vol. 48. No. 9 Mar. 13, 1920. 1. Anaconda chimney, longest and tallest in the world. 3 p. 2. Studying manufacturing wastes in Connecticut. 2 p.

Vol. 48. No. 10 Mar. 20, 1920. 1. Hetch-Hetchy water supply. II. 4 p. 2. New York New Jersey Vehicular tunnel. 2 p. 3 Excavting a mountain of rock, 1 p. 4. Newark sewer tunnel. 3 p.

Railway Age

Vol. 68. No. 4. Jan. 23, 1920. 1. Michigan Central builds large classification yard. 4 p.

Vol. 68. No. 5. Jan. 30, 1920. 1. New York Central relocates line in Tonawanda, N. Y. 3½ p. 2. Colorado Commission Urges building three tunnels. 3 p.

Vol. 68. No. 6. Feb. 6, 1920. 1. Electrification of Melbourne suburban railways. 10 p.

Vol. 68. No. 8. Feb. 20, 1920. 1. New tribunal proposed to settle wage demands. 11 p.

Vol. 68. No. 11. Mar. 12, 1920. 1. A scientific study of railway track under load. 4½ p.

Vol. 68. No. 12. Mar. 19, 1920. 1. Flexible rafts protect river banks from cutting. 3¼ p.

Railway Gazette

Vol. XXXII. No. 7, Feb. 31, 1920. 1. The Lancashire & Yorkshire Railway Company's shipping sheds at Goele. 5 p. with 1 plate.

Railway Review

Vol. 66. No. 8. Feb. 21, 1920. 1. Mechanical tie handling at treating plants. 3¼ p.

Vol. 66. No. 9. Feb. 28, 1920. 1. Complete text of the new railroad bill. 17 p.

Vol. 66. No. 10. Mar. 6, 1920. 1. The railway system of Brazil.

Vol 66. No. 11. Mar. 13, 1920. 1. Elevation of C. B. & Q traks at Aurora, Ill. 5 p. 2. The railway system of Brazil. 3½ p. 3. Imperial pneumatic tie tampers. 2½ p.

Vol 66. No. 12. Mar. 20, 1920. 1. Line improvement of the New York Central at Tonawanda, N. Y. 4½ p. 2. Motorizing railroad freight terminals. 3½ p.

Schweizerische Bauzeitung

Band LXXV. No. 6. 7 Feb., 1920. 1. Die Aussichten der elektrischen Raumheizung in der Schweiz. 3 p. 2. Die Gemeindestrasse Schüpfheim-Flühli durch die Lammschlucht im Kanton Luzern. 3 p.

Band LXXV. No. 7. 14. Feb., 1920. 1. Ueber Spaniens elektrische Sammelschiene. 2½ p.

Band LXXV. No. 8. 21. Feb., 1920. 1. Einfache Theorie der Reguliervorgänge indirekt wir-

kender Regulatoren. 3 p. 2. Die Wasserkraftanlage "Gösgen" an der Aare der A.-G. "Elektrizitätswerk Olten-Aarburg." 1½ p.

Scientific American

Vol. CXXII. No. 7. Feb. 14, 1920. **1.** Dredges of other days. 1 p. **2.** From coal barge to bunker. (A digging and elevating outfit of interseeting design and great adaptability). 1 p.

Vol. CXXII. No. 9. Feb. 28, 1920. **1.** Weighing a monster locomotive. 1 p. **2.** Our deepest wells. (Some of the scientific and practical problems which they may help us to solve). 1 p.

Vol. CXXII. No. 12. Mar. 20, 1920. **1.** New Orleans' industrial canal. (A six mile waterway connecting the Mississippi with the gulf).

Scientific American Monthly

Vol. I. No. 3. March, 1920. **1.** Fatigue phenomena in metals. 7½ p.

The Engineer

Vol. CXXIX. No. 3346. Feb., 13, 1920. **1.** Recent advances in utilisation of water power. 1½ p.

Vol. CXXIX. No. 3347. Feb., 20, 1920. **1.** Pinions and shafts for double helical gears. 1½ p.

Vol. CXXIX. No. 3348. Feb. 27, 1920. **1.** The Swiss Rhone-Rhine navigation project. No. 1. 2⅔ p. **2.** High-service reservoir at Saint Paul. No. 1. 2⅓ p.

Vol. CXXIX. No. 3351. Mar. 19, 1920. **1.** The Swiss Rhone-Rhine navigation. No. III. 1⅔ p.

The Far Eastern Review

Vol. XVI. No. 3. March, 1920. **1.** China's engineering feats; her rivers and roads. 5 p. **2.** Chinese bridges. 3½ p. **3.** Land transportation in the Philidpines. 2½ p.

Vol. XVI. No 4. April, 1920. **1.** Port and railway schemes for South China. 6 p. **2.** Iron production in China and its outlook. 4½ p. **3.** Mineral production in China. 2 p.

The Indian & Eastern Engineer

Vol. XLVI. No. 2. February, 1920. **1.** Railway and transport notes. 4 p. **2.** The engineering problems of Pyramids. 3½ p.

Vol. XLVI. No. 3. March, 1920. **1.** The world's petroleum output. 2 p. **2.** Railway and transport notes 3 p. **3.** Roads in the Punjab. 3 p.

The Journal of the Engineers' Club of Philadelphia

Vol. XXXVII. No. 182. January, 1920. **1.** Manufacture of genuine wrought iron pipe. 7 p.

Vol. XXXVII. No. 184. March, 1920. **1.** The work of the construction division of the United States Army from coast to coast 1917-1919. 51 p.

The Journal ofthe Institution of Municipal and Country Engineers

Vol. XLVI. No. 15. 17 Jan., 1920. **1.** The regional treatment of housing and development problems in South Wales. 15 p.

Vol. XLVI. No. 16. 31 Jan., 1920. 1. Timber. 27 p.

Vol. XLVI. No. 17. 14 Feb., 1920. 1. Some random notes concerning a small town. 11 p.

Vol. XLVI. No. 18. 28 Feb., 1920. 1. A few notes on road maintenance with special reference to Devonshire. 11 p.

The Military Engineer

Vol. XII. No. 61. Jan.—Feb., 1920. 1. Engineer construction in France. 8 p. 2. The airplane in surveying and mapping. 2½ p. 3. Construction of lock D, Cumberland River. 8 p

The Railway Magazine

Vol. XLVI. No. 271. January, 1920. 1. A modern railway goods station in Manchester. 11 p.

Vol. XLVI. No. 272. February, 1920. 1. Feltham concentration yard, London & South Western Railway. 7 p.

Vol. XLVI. No. 273. March, 1920. 1. Suburban electric traction in Australia. 10 p. 2. First underground railway in Spain. 3 p.

Water and Water Engineering

Vol. XXII. No. 254. Feb. 20, 1920. 1. Nitrogen products and water power. 3 p. 2. Recent advances in Utilisation of water power. 5 p.