

新刊紹介

土木學會誌 第七卷第五號 大正十年十月

新刊紹介
内外諸雜誌主要題目

- Bergeron, L.—Calcul des charpentes d'après les méthodes nouvelles, avec solutions graphiques. Un volume 21×27 de VIII-426 pages, avec 166 figures et 10 planches hors texte. Dunod, éditeur. Paris. Prix: 85 fr.
- Bougault, P.—La législation nouvelle des chutes d'eau. Jules Rey, éditeur, Grenoble. Prix: 25 fr.
- Bronneck—Einführung in die Berechnung der im Eisenbetonbau gebräuchlichen biegungsfesten Rahmen. Mit 114 Textabbildungen. Zweite, neubearbeitete und erweiterte Auflage. Wilhelm Ernst & Sohn, Berlin. 1921. Preis: geh., 34 M., geb., 39 M.
- Colony, R. J.—Judging the quality of Portland cement. 6×9, 10 P., illustrated, paper. Published by the author.
- Corset, H.—Béton armé, abaques pratiques pour l'établissement des hourdis et des poteaux. Un volume 27×33, comprenant 44 planches collées sur onglets, relié pleine toile. Dunod, éditeur, Paris. Prix: 75 fr.
- Engels, H.—Handbuch des Wasserbaues, 2nd edition. Vol. I & II. 7×10, 1614 P., illustrated. Wilhelm Engelmann, Leipzig. Price: paper 260 M., bound 292 M.
- Hool, G. H.—Concrete designers' mannee: Tables and diagrams for the design of reinforced concrete structures. 6×9, 276 P., illustrated, flexible. Price: \$ 4.
- Kleinlogel, A.—Rahmenformeln. Un volume in-8° de 244 pages, avec 485 figures. Wilhelm Ernst & Sohn, Berlin. Prix: broché, 48 M., relié, 54 M.
- Martel, E.-A.—Nouveau traité des eaux souterraines. Un volume in-8° de 840 P., et 384 figures. G. Doin, éditeur, Paris. Prix: 50 fr.
- Mattern, E.—Die Ausnutzung der Wasserkrafte. (Dritte Auflage) Wilhelm Engelmann, Leipzig. 8×11, 1029 P., illustrated. Price: paper; 192 M., cloth; 212 M.
- Rench, W. F.—Roadway and track. 6×9, 242 P., 40 illustrations, cloth. Simmons-Boardman Publishing Co., New York. Price: \$ 3.
- Waddell, J. A. L.—Economics of bridgework. 6×9, 512 P., illustration, cloth. John Wiley & Sons, New York. Price: 6.30 net.
- Warren, W. H.—Engineering construction in masonry and concrete. Part II. 6×9, 498 P., illustrated, cloth. Longmans, Green and Co., London. Price \$ 12.
- Handbuch der Ingenieurwissenschaften, dritter Teil: Der Wasserbau. Sechster Band: Der Flussbau. Mit 485 Textabbildungen, 54 photogr. Bildern und 3 Tafeln. Wilhelm Engelmann, Leipzig. 1921. Preis: geh. 136 M., geb. 154 M.

内外諸雜誌主要題目

工 學

- 第八卷 第八號 大正十年八月十日. 1. 交叉點の設計. 5頁. 2. ボーリング作業の質績. 佐藤 康平. 5頁. 3. 都市計畫事業に伴ふ殘地處分問題. (二). 上田辰三. 10頁. 4. 鐵筋混凝土計算規程に就て. (三). 坂田時和. 9頁. 5. 鑿岩機の經濟的價値に就て. (三). 田添忠太郎. 10頁.
- 第八卷 第九號 大正十年九月十日. 1. 吾が都市計畫完成の一例. 長崎敏音. 6頁. 2. 都市計畫事業に伴ふ殘地處分問題と餘剩收用(地帯收用). (三). 上田辰三. 7頁. 3. 鐵筋混凝土計算規程に就て. (五). 坂田時和. 7頁.

工 學 會 誌

新 第四百五十一卷，大正十年九月二十日。 1. 電力統一に就て。 濹澤元治。 17 頁。

刊

紹

工 業 雜 誌

- 分 第五十五卷，第七百〇四號，大正十年七月二十日。 1. 歐米の地下鐵道。(二) 八田嘉明。 7 頁。
 第五十五卷，第七百〇五號，大正十年八月五日。 1. 歐米の地下鐵道。(三) 八田嘉明。 7 頁。
 第五十五卷，第七百〇六號，大正十年八月二十日。 1. 小馬力水車の使用に就て。 内丸最一郎。 5 頁。
 第五十五卷，第七百〇八號，大正十年九月二十日。 1. セメント發射機及其公開 試 運轉成績。 秋山律雄。 6½ 頁。

内外諸雜誌主要題目

帝國鐵道協會會報

第二十二卷，第五號，大正十年九月十五日。 南滿洲鐵道株式會社技術部に於ける米突法度量衡實施に就て。 佐藤俊久。 21 頁。

Annales des Ponts et Chaussées Partie Technique

- 91^e Année. Tome LX. Vol. I. Janvier-Février, 1921. 1. Recherches sur les plaques rectangulaires minces appuyées à leur pourtour. Par M. Pigeaud. 44 p. 2. Note sur un voyage en Italie pour la visite d'usines hydroélectriques. Par M. Denizet. 11 p. 3. La restauration du réseau routier. Considérations sur les divers systèmes financiers auxquels on pourrait recourir. Par M. Canfourier. 7 p.
 91^e Année. Tome LX. Vol. II. Mars-Avril. 1. Note sur les ouvrages d'accostage en ciment armé du port de Nantes et de la Loire maritime. Par M. Kauffmann. 34 p. 2. Antoine Chézy. Histoire d'une formule d'hydraulique. Par M. Mouret. 76 p. 3. Mémoire sur la vitesse de l'eau conduite dans une rigole donnée. Par M. Chézy. 28 p.

Annales des Travaux Publics de Belgique

- Tome XXII. 2^e Fascicule. Avril, 1921. 1. Le calcul des colonnes. Par L. Lemaire. 34 p. 2. Des niveaux à lunettes et des cercles topographiques. Détermination expérimentale des erreurs d'observation, des erreurs de contact et des erreurs résiduelles de réglage. Aperçus sur le degré de précision des cercles. Qualités et défauts de quelques instruments. Par H. Van Hyfte. 26 p. 3. Le peuplier du Canada. Note de M. Snaeppe. 9 p. 4. Egouts publics. Par Ch. Dubosch. 48 p.
 Tome XXII. 3^e Fascicule. Juin, 1921. 1. Le calcul des colonnes. Par L. Lemaire. 18 p. 2. Des niveaux à lunettes et des cercles topographiques. Par H. Van Hyfte. 26 p. 3. Egouts publics. Par Ch. Dubosch. 34 p. 4. Les ascenseurs pour bateaux du canal du Centre. Note de M. L. Van Wetter. 14 p. 5. Recherche expérimentale sur la déformation des matériaux pierrenx par flexion composée. Par G. Magnel. 25 p.

二

Bulletin of the International Railway Association

- Vol. III. No. 4. April, 1921. 1. On the question of slow-freight traffic (Subject XI for discussion at the ninth congress of the International Railway Association). By Edilio Ehrenfreund. 32 p.
 Vol. III. No. 6. June, 1921. 1. On the question of special steel (Subject III for discussion at the ninth of the International Railway Association). By W. C. Cushing. 63 p. 2. On the question of slow-freight traffic (Subject XI for discussion at the ninth congress of the International

Railway Association). By Mr. Guerber. 22 p. 3. On the question of maintenance and supervision of the track (Subject II for discussion at the ninth congress of the International Railway Association). By Chas. J. Brown. 28 p. 4. Creeping of rails. 40 p.

Compressed Air Magazine

- Vol. XXVI. No. V. May, 1921. 1. The use of scrapers in metal mine. By Lucien Eaton. 11 p. 2. The wave power rock drill. By Frank Richards. 2 p.
- Vol. XXVI. No. VI. June, 1921. 1. The potentialities of liquid oxygen explosives. By Robert G. Skerrett. 4 p.

Concrete and Constructional Engineering

- Vol. XVI. No. 6. June, 1921. 1. The general theory of moving loads. By V. A. Bailey. 4 p. 2. Some notes on piling. 4 p.
- Vol. XVI. No. 7. July, 1921. 1. The modulus of elasticity of concrete. By Prof. F. C. Lea. 7 p. 2. Concrete in theory and practice: Reinforced concrete simply explained. By Oscar Faber 3 p.

Concrete Products

- Vol. 20. No. 5. May, 1921. 1. Valley concrete pipe company's extensive operation. By W. A. Scott. 2 p. 2. Fire resistance of concrete building units. By W. C. Robinson. 1½ p.
- Vol. 20. No. 6. June, 1921. 1. New and successful method of constructing concrete houses. By D. V. Weed, Jr. 3 p.
- Vol. 21. No. 1. July, 1921. 1. Ornamental concrete roofing tile. By Donovan Helmuth. 4 p. 2. Ornamental concrete lamp posts. By C. Edward Magnusson. 3 p.

Electric Railway Journal

- Vol. 57. No. 26. June 25, 1921. 1. Details of the pioneer trackless trolley installation. 3½ p. 2. Merchandising transportation. By W. H. Boyce. 2 p.
- Vol. 58. No. 1. July 2, 1921. 1. How an interurban line developed a freight business. 3 p.
- Vol. 58. No. 2. July 9, 1921. 1. Serving trolley freight and motor truck Customers. 6½ p. 2. San Francisco rerouting effective. 1½ p.
- Vol. 58. No. 4. July 23, 1921. 1. Methods of constructing a mile of paved track a day. 9 p. 2. Motor truck haulage in Chicago produces business. 2½ p.
- Vol. 58. No. 5. July 30, 1921. 1. Successful use of welded joints in Baltimore, Md. By W. W. Wysor. 2 p.
- Vol. 58. No. 6. Aug. 6, 1921. 1. Traffic and housing in large cities. 2½ p.

Engineering

- Vol. CXI. No. 2892. June 3, 1921. 1. The devastation of France. 4 p.
- Vol. CXI. No. 2893. June 10, 1921. 1. Elasticity. 2 p. 2. Heat transfer in flues—A graphic method of calculation. 1 p.
- Vol. CXI. No. 2894. June 17, 1921. 1. Percolation and tube wells. 2 p.
- Vol. CXI. No. 2895. June 24, 1921. 1. The devastation of France. 2 p.

- Vol. CXI. No. 2896. July 1, 1921. 1. The calculation of critical speeds. 2 p. 2. The Royal Albert Dock extension, London. 5 p.
- 新 Vol. CXII. No. 2897. July 8, 1921. 1. The Institution of Civil Engineers Engineering conference. 18 p.
- 刊 Vol. CXII. No. 2899. July 22, 1921. 1. Reconstruction of the Ebury-Street bridge, London. 1½ p.
- 紹 Vol. CXII. No. 2900. July 29, 1921. 1. Impact stresses. 1 p. 2. Measurement of vibration of the 660 ft. wireless telegraph station at Haranomachi. By F. Omori. 5 p. 3. Vertical lift bridges. By Ernest E. Howard. 3 p.
- 分

Engineering News-Record

- Vol. 86. No. 24. June 16, 1921. 1. Filling high viaducts on the Philadelphia & Reading Ry. By Percival S. Baker. 3 p. 2. Building the Maricopa County concrete roads. 4 p. 3. Earth fill irrigation dam has some novel details. By Clair V. Mann. 2 p. 4. Pests of dredge pump operation for hydraulic fill. By Ivan E. Houk. 3 p.
- Vol. 86. No. 25. June 23, 1921. 1. Rebuilding an old new England water-power plant. By E. H. Swett. 5 p. 2. Graphic Wattmeter checks gravity plant operation. 2 p. 3. Combination quay and pier built in restricted space. 3 p. 4. Construction of substructure for Platte River bridge. By J. H. Merriam. 3 p. 5. Notes on California rock tunneling practice. By A. J. Cleary. 3 p. 6. Engineering studies for Philadelphia—Camden bridge. 4 p.
- Vol. 86. No. 26. June 30, 1921. 1. Engineering College registration shows 4-per cent gain. 3 p. 2. Indian state builds a power and irrigation dam. By E. W. T. Slater. 1½ p. 3. Winter work on a Quebec water-power development. 3½ p. 4. Report of annual meeting of the American Society of Testing Materials. 4½ p.
- Vol. 87. No. 1. July 2, 1921. 1. Recovery of flooded sewer tunnels at Milwaukee. 5 p. 2. Tunnel concrete lining placed by pneumatic gun. By W. D. Shannon. 2 p. 3. Railway relocation to eliminate sliding hillside. 2 p.
- Vol. 87. No. 2. July 14, 1921. 1. Nine years' operation of the Baltimore sewage works. By Theodore C. Schaetzle. 5 p. 2. Special concrete highway built for motor truck. 2 p. 3. Railway bridge construction and service by American and European standards. By P. H. Chen. 2 p. 4. Emergency levee on Mississippi built in record time. By A. L. Dabney. 2½ p.
- Vol. 87. No. 3. July 21, 1921. 1. The Susitna River bridge: Alaska Government Railway. 2½ p. 2. Nine years' operation of the Baltimore sewage works. By Theodore C. Schaetzle. 5 p. 3. Fire resistance of building columns as shown by test. 5 p.
- Vol. 87. No. 4. July 28, 1921. 1. Relining Pacific coast railroad tunnels with concrete. 3½ p. 2. Proportioning concrete by voids in the mortar. By Arthur N. Talbot. 5 p.
- Vol. 78. No. 5. August 4, 1921. 1. Concrete hauled three miles from central mixing plant. 2½ p. 2. A new curtain wall drop for irrigation canals. By H. M. Chadwick. 1 p. 3. Structural features of Chicago federal reserve bank. 3 p. 4. Design and operation of locomotive fuel oil stations. 4 p. 5. Sintring substructure of bascule bridge reconstruction. 3 p.
- Vol. 87. No. 6. Aug. 11, 1921. 1. Excavating the foundation for Hetch Hetchy dam. 3 p. 2. A study of stresses in eyebar heads. By Josef Beke. 5 p.

Engineering Management

- Vol. 5. No. 22. June 2, 1921. 1. Conveying: Pneumatic grain transport plants. By Prof. William Cramp. 7 p.
- 四 Vol. 5. No. 24. June 16, 1921. 1. Conveying: The Lawson automatic aerial tramway. By George Frederick Zimmer: The need for organisation by material handling machinery manufacturers: An opportunity. By Frederic Stadelman, Universal coal conveyor. By An American correspondent. 7 p.
- Vol. 5. No. 25. June 23, 1921. 1. The protection of iron with paint against atmospheric corrosion. By Newton Friend. 1 p.
- Vol. 5. No. 26. June 30, 1921. 1. Conveying: Coal handling plant of the new power house of Leyland Motors, Ltd. 2 p.

Engineering World

- Vol. 19. No. 1. July, 1921. 1. Hydroelectric power possibilities on Columbia River. By W. A. Scott. 3 p. 2. Concrete highway bridge floors. 3 p. 3. Double-drum and cantilever arches. By Daniel B. Luten, 5 p. 4. Standard specifications for disc water meters. 3 p.
- Vol. 19. No. 2. August, 1921. 1. The St. Lawrence waterway. By Charles Whiting Baker. 2½ p. 2. Wood pipe lines for hydroelectric development in New England. 4 p. 3. Systems of concrete piles. 4½ p. 4. Developing 600-mile Auto Trunk line carrier. 3½ p.

Highway Engineering and Contractor

- Vol. 5. No. 1. July, 1921. 1. Compressed air effects economy in pavement repairs. By Wallace R. Harris. 3½ p. 2. Highway construction and the mechanical engineer. 7 p. 3. Resurfacing old brick pavements. By John Stanley Crandell. 1 p. 4. Industrial haul solves highway construction problems. By D. S. MacBride. 2 p. 5. Asphalt and its use in construction. By John B. Hittell. 3 p.
- Vol. 5. No. 2. August, 1921. 1. Concrete highway construction in Virginia. 3 p. 2. Recovering worn pavements, 2½ p. 3. Improved method of resurfacing asphalt pavements. 1 p. 4. Use of traffic census in deciding highway widths. By A. N. Johnson. 4 p.

Journal of the New England Water Works Association

- Vol. 35. No. 2. June, 1921. 1. Pipe extension charges. By Nicholas S. Hill, Jr. 16 p. 2. Relation between plumbers and water-works superintendents. By G. Wilbur Thompson. 10 p. 3. The need of uniformity in plumbing regulations. By Prof. George C. Whipple. 6 p.

Journal of the Western Society of Engineers

- Vol. XXVI. No. 6. June, 1921. 1. Reducing the cost of steel frame buildings. By R. Fleming. 9 p.
- Vol. XXVI. No. 7. 1. Acoustical properties of buildings. By F. R. Watson. 7 p. 2. The classification and maintenance of old railroad bridges. By C. F. Loweth. 11 p. 3. Lights and shadows of the activity sludge process for the treatment of sewage and industrial wastes. By Harrison P. Eddy. 14 p.
- Vol. XXVI. No. 8. August, 1921. 1. Current tendencies in sewage disposal practice. By George W. Fuller. 16 p. 2. Proposed investigations in structural engineering. By W. M. Wilson. 8 p.

La Houille Blanche

- 20^e Année. No. 53-54. Mai-Juin 1921. 1. La Géologie et l'Aménagement hydroélectrique des Chutes d'eau. Par W. Kilian. 9½ p. 2. Sur l'Etude des Perturbations de Vitesse des Groupes électrogènes par la méthode des caractéristiques. Par Barbillion. 2 p. 3. Construction et Applications de Dispositifs de Barrages automatiques. Par E. Froté. 5 p. 4. L'Usure des Turbines hydrauliques. Par Henri Dufour. 7½ p.

Le Génie Civil

- Tome LXXVIII. No. 25. 18 Juin 1921. 1. La Station radiotélégraphique Lafayette, à Croix-d'Hins, près de Bordeaux. Construction des pylônes et pose de l'antenne. Par L. Jullien. 8 p.
- Tome LXXVIII. No. 26. 25 Juin 1921. 1. La nouvelle usine de la Compagnie Electro-Mécanique, au Bourget. Par Ch. Dantin. 5 p. 2. Le projet de pont suspendu de 987 mètres de portée sur l'Hudson, à New-York. 2 p.

- Tome LXXXIX. No. 1. 2 Juillet 1921. 1. Règle logarithmique, système Rieger, pour le calcul des constructions en béton armé. Par J. Rieger. 4 p.
- Tome LXXXIX. No. 2. 9 Juillet 1921. 1. Les efforts de la Compagnie du Chemin de fer du Nord pendant et après la guerre. 4 p. 2. La concession des chutes de la Haute-Dorlogne à la Compagnie du Chemin de fer d'Orléans. Les conventions et le cahier des charges. Par Tochon. 3½ p. 3. La Station radiotélégraphique Lafayette à Croix-d'Hins, près Bordeaux. Fondations en béton armé des pylônes de l'antenne. Par Harel de la Noë. 3½ p.
- Tome LXXXIX. No. 3. 16 Juillet 1921. 1. Le démantèlement des fortifications de la base navale d'Éligoland. 4 p. 2. La Station radiotélégraphique Lafayette, à Croix-d'Hins, près Bordeaux. Calcul des traversiers, considérés au seul point de vue de leur résistance propre, et de leur action sur les pylônes. Par Harel de la Noë. 5 p.
- Tome LXXXIX. No. 5. 30 Juillet 1921. 1. Le pont de Villeneuve-sur-Lot (Lot-et-Garonne). Perfectionnements dans la construction des grandes voûtes. Par E. Freyssinet. 5½ p. 2. Projet d'utilisation des marées dans la baie de Rothéneuf (Ille-et-Vilaine). Par Ch. Dantin. 4 p.

Public Works

- Vol. 51. No. 2. July 9, 1921. 1. Hetch-Hetchy aqueduct tunnel. 1½ p.
- Vol. 51. No. 3. July 16, 1921. 1. Mechanical equipment of Baltimore water department. By V. Bernard Siems. 3½ p. 2. Concrete arch bridges. By B. H. Davis. 3 p.
- Vol. 51. No. 4. July 23, 1921. 1. Liberty Tunnel, Pittsburgh. 4 p.
- Vol. 51. No. 5. July 30, 1921. 1. New York stock exchange foundation. 4½ p. 2. The waste of water in Detroit. 3 p.
- Vol. 51. No. 6. August 6, 1921. 1. The state highway system of Connecticut. 2 p.

Railway Age

- Vol. 70. No. 24. June 17, 1921. 1. Lift bridges compared with other movable forms. 4 p.
- Vol. 70. No. 25. June 24, 1921. 1. Mechanical trimmers facilitate coal loading. By P. G. Lang. Jr. 4 p. 2. Railroad electrification at high voltage. By F. H. Shepard. 4 p.
- Vol. 71. No. 1. July 2, 1921. 1. Reconstructing a tunnel with modern methods. 4 p.
- Vol. 71. No. 2. July 9, 1921. 1. New freight terminal nearing completion in Chicago. 4 p.
- Vol. 71. No. 3. July 16, 1921. 1. Great Alaskan bridge built during coldest weather. 3 p.
- Vol. 71. No. 4. July 23, 1921. France undertakes huge electrification program. By Oliver F. Allen. 3½ p.
- Vol. 71. No. 5. July 30, 1921. 1. Expenditures of the railways for labor and material. 4 p.
- Vol. 71. No. 6. Aug. 6, 1921. 1. E. P. & S. W. rebuilds 141-mile wood stave pipe line. By J. L. Campbell. 2 p.

Railway Maintenance Engineer

- Vol. 17. No. 6. June, 1921. 1. How concrete pile trestles are built. 4 p.
- 六 Vol. 17. No. 7. July, 1921. 1. Railroad fight Colorado floods. 5½ p.
- Vol. 17. No. 8. August, 1921. 1. Rebuilding an unusual wood stave pipe line. By J. L. Campbell. 3½ p.

Railway Review

- Vol. 68. No. 26. June 25, 1921. 1. New locomotive terminal for the M. K. & T. Ry at Oklahoma City. 7 p.

- Vol. 69. No. 1. July 2, 1921. 1. Substituting water power for wood fuel in Brazil. By W. D. Bearce. 4 p.
- Vol. 69. No. 2. July 9, 1921. 1. River protection work of the C. B. & Q. R. R., on the Missouri River. 4 p. 2. The flood at Pueblo—An emergency in railroading. 3½ p.
- Vol. 69. No. 4. July 23, 1921. 1. Our unwavered railroad—Strong moral position of security holders. By Elisha Lee. 4 p.
- Vol. 69. No. 5. July 30, 1921. 1. Damage by fire to creosoted trestle, N. C. & St. L. Ry. 3 p.
- Vol. 69. No. 7. Aug. 13, 1921. 1. High capacity consolidation type locomotives. 6½ p.

Schweizerische Bauzeitung

- Band 77. Nr. 23. 4. Juni 1921. 1. Les usines hydro-electriques du Guadiaro. 2 p.
- Band 77. Nr. 24. 11. Juni 1921. 1. Technische Grundlagen zur Beurteilung schweizerischer Schiffsfahrtsfragen. 6 p. 2. Les usines hydro-electriques du Guadiaro. 2 p.
- Band 77. Nr. 25. 18. Juni 1921. 1. Die Eisenerze der Juraformation im Schweizer Jura. Von Prof. C. Schmidt. 4 p. 2. Die Entwicklung der französischen Seehäfen während der Kriegsjahre. 3 p.
- Band 77. Nr. 26. 25. Juni 1921. 1. Les usines hydro-electriques du Guadiaro. 5½ p. 2. Technische Grundlagen zur Beurteilung schweizer Schiffsfahrtsfragen. 2 p.
- Band 78. Nr. 1. 2. Juli 1921. 1. Die Bauten für die Kraftwerke oberhasle gemäss den Projekten der B. K. W. 5 p.
- Band 78. Nr. 2. 9. Juli 1921. 1. Entwicklungsmöglichkeiten der elektrischen Vollbahnlokomotive. Von Egon E. Seefehlner. 3 p. 2. Die Bauten für die Kraftwerke Oberhasle gemäss den Projekten der der B. K. W. 2½ p.
- Band 78. Nr. 3. 16. Juli 1921. 1. Das Chippawa-Queenston-Kraftwerk am Niagara der Hydro-Electric Power Commission of Ontario. Von Ernst Steiner. 4 p.
- Band 78. Nr. 4. 23. Juli 1921. 1. Theoretische Erörterungen zur Wassermessmethode. Von N. R. Gibson. 3 p. 2. Das Chippawa-Queenston-Kraftwerk am Niagara, der Hydro-Electric Power Commission of Ontario. Von Ernst Steiner. 4 p.

Scientific American

- Vol. CXXIV. No. 25. June 18, 1921. 1. What is the trouble with the railroads? (An analysis of the business done by our transportation systems, and the rates they are charging for it). By C. F. Carter. 1 p.
- Vol. CXXIV. No. 26. June 25, 1921. 1. Canada's great ship canal (The present status and the ultimate plans of the Welland improvement). By J. F. Springer. 2 p. 2. Improvements in train braking (A combination of straight and automatic air that gives remarkable brake control on steep grades). 2 p.
- Vol. CXXV. No. 1. July 2, 1921. 1. Bridging the Delaware at Philadelphia. (A two cable suspension bridge with a main span of 1750 feet). 2 p.
- Vol. CXXV. No. 2. July 9, 1921. 1. Hydraulic power under a mile-high head (Some interesting details of a remarkable Pelton-wheel installation in Switzerland). 1 p.
- Vol. CXXV. No. 3. July 16, 1921. 1. Putting green sand to work (How the hitherto untouched glauconite deposits will insure our future potash requirements). By R. Norris Shreve. 1 p.
- Vol. CXXV. No. 4. July 23, 1921. 1. Reporting the life story of rails (How railroads employ the rail-section machine for determining the wear and tear on their tracks). By Robert G. Skerrett.

The Engineer

- Vol. CXXXII. No. 3418. July 1, 1921. 1. Canada's fuel and water power problems. 2 p.

- Vol. CXXXII. No. 3419. July 8, 1921. 1. Port of London. Opening of New Albert Dock extension. 3 p.
- 新 Vol. CXXXII. No. 3420. July 15, 1921. 1. The engineering conferences. 3 p.
- 刊 Vol. CXXXII. No. 3421. July 22, 1921. 1. The engineering conferences. 5 p. 2. De-
velopments in power station design. 3 p.

紹
分

The Far Eastern Review

- 內 Vol. XVII. No. 7. July, 1921. 1. Madras harbor works. 3 p.
- 外 Vol. XVII. No. 8. August, 1921. 1. The Japanese engineer. $\frac{1}{2}$ p. 2. The Yellow River
雜 bridge. 1 p.
- 誌
主
要
題
目

The Journal of the Engineers' Club of Philadelphia

- Vol. XXXVIII. No. 197. May, 1921. 1. Engineering problems in city development. By
George S. Webster. 4 p.
- Vol. XXXVIII. No. 198. June, 1921. 1. Road construction for heavy traffic. By Earl B.
Smith. 15 p. 2. The development and future of handling freight by motor trucks. By F. W.
Penn. 14 p.
- Vol. XXXVIII. No. 199. July, 1921. 1. City paving. By C. M. Pickney. 13 p. 2. The
Delaware River bridge. 6 p.

The Journal of the Institution of Municipal and County Engineers

- Vol. XLVII. No. 26. June 18, 1921. 1. Mechanical transport. By A. R. Galbraith. 5 p.

The Military Engineer

- Vol. XIII. No. 70. July-August, 1921. 1. Conversion of hachures to contours. By L. B.
Roberts 4 p. 2. A new mobile water purification unit. 2 p.

The Railway Engineer

- Vol. XLII. No. 498. July, 1921. 1. Suburban electric traction in Japan. 4 p. 2. Con-
trolling the starting signal for entering single line sections by the tablet. 2 p. 3. The Alleg-
heny railway bridge. 3 p. 4. Labour-aiding appliances in permanent way work. 4 p. 5.
Recent patents relating to railways. 4 p.

八

The Railway Gazette

- Vol. XXXIV. No. 22. June 3, 1921. 1. The train control system of the North British Rail-
way. 12 p. with 1 plate.
- Vol. XXXIV. No. 23. June 10, 1921. 1. Great Central Railway vehicles with armoured ends,
collision buffers and interlocking fenders. 1 p. 2. Mechanical appliances for handling railway
traffic. X. By Geo. Bulkeley. 4 p.
- Vol. XXXIV. No. 24. June 17, 1921. 1. Mechanical appliances for handling railway traffic.
XI. By Geo. Bulkeley. 5 p.

- Vol. XXXIV. No. 25.** June 24, 1921. 1. Mechanical appliances for handling railway traffic. XII. By Geo. Bulkeley. 6 p.
- Vol. XXXV. No. 1.** July 1, 1921. 1. Heavy locomotive work on the Great Northern Railway. 3 p. 2. Marshalling and shunting on railways. 2 p. 3. Mechanical appliances for handling railway traffic. XIII. By Geo. Bulkeley. 2 p.
- Vol. XXXV. No. 2.** July 8, 1921. 1. The train control system of the Midland Railway. 52 p. with 4 diagrams.
- Vol. XXXV. No. 4.** July 22, 1921. 1. The working of traffic in connection with Royal Agricultural show, Derby, 1921. 3 p.

新
刊
紹
介內
外
諸
雜
誌
主
要
題
目

The Railway Magazine

- Vol. XLIX. No. 289.** July, 1921. 1. Strantford works: Great Eastern Railway. By J. F. Gairns. 15 p.
- Vol. XLIX. No. 290.** August, 1921. 1. Cockermonth, Keswick and Penrith Railway. By Voyageur. 8 p.

The Road-Maker

- Vol. 15. No. 6.** June, 1921. 1. Crushed stone and gravel roads. By C. L. Mc Kesson and A. F. Morris. 2 p. 2. Suggestions for asphalt paving contractors. By Henry B. Drown. 8 p.

Water and Water Engineering

- Vol. XXIII. No. 270.** June 20, 1921. 1. Water power from the Rhone. 1½ p. 2. The so-called action of water on lead. By J. C. Thresh. 1½ p. 3. The porosity of rocks and its influence upon the yield of wells and boreholes. By Percy Fry Kendall. 3½ p. 4. Gauge weirs for streams. By H. J. F. Gourley. 4 p.
- Vol. XXIII. No. 271.** July 20, 1921. 1. The water supply of Lincoln. 5 p.