

## 新刊紹介

土木學會誌 第六卷第五號 大正九年十月

- Benjamin, W.**—America's greatest dam: Wilson dam, Nitrate Plant No. 2, Muscle Shoals, Alabama  $9 \times 6$ , 64 P., illustrated, paper. Price: \$ 1.
- Bulman, H. F.**—Coal mining and the Coal Miner. Methuen and Co., London. Price: 15 s. net.
- Daw, A. W. & Daw, Z. W.**—Compressed air power: A treatise on the development and transmission of power by Compressed air. Sir Isaac Pitman and sons, London. Price: 21 s. net.
- Domke, O.**—Hochbau. II. Teil. Zehnter Band des Handbuches für Eisenbetonbau. Zweite Auflage, Mit 754 Textabbildungen. Wilhelm Ernst & Sohn, Berlin. 1920. Preis geh. 44 M., geb. 60 M.
- Ewing, D. D.**—Electric driven water works in Indiana.  $6 \times 9$ , 100 P., illustrated, paper.
- Fless, L.**—Baumechanik für Eisenbeton. Zehnter Band von "Die gesamte Hochbaukunde." Dritte, umgearbeitete Auflage des früheren Werkes "Eisenbeton" Mit zahlreichen Beispielen, Abbildungen und Tabellen. Franz Deuticke, Wien u. Leipzig. 1920. Preis geh. 6 M.
- Foerster, M.**—Abriss der Statik der Hochbaukonstruktionen. Mit 157 Textfiguren. Julius Springer, Berlin. 1920. Preis geh. 8.60 M.
- Funk, P.**—Die linearen Differenzengleichungen und ihre Anwendung in der Theorie der Baukonstruktionen. Mit 24 Textabbildungen. Julius Springer, Berlin. 1920. Preis geh. 10 M.
- Gleason, C.**—Engineering for land drainage. Third edition, revised.  $5 \times 8$ , 363 P., illustrated, cloth. John Wiley & Sons, New York.
- Hammard, G. T.**—Sewage treatment experiments at Brooklyn. The Author, 156 Berkeley Place, Brooklyn, N. Y.  $6 \times 9$ , 103 P., illustrated, paper.
- Heirman, Ed.**—Calculs graphiques et analytique du béton armé. Un volume  $19 \times 28$  de 208 P., avec 141 figures. Dunod, éditeur, Paris. Prix: 18 francs.
- Lucas, G.**—Der Tunnel, Anlage und Bau. Wilhelm Ernst & Sohn, Berlin. Preis geh. 30 M., geb. 35 M.
- Lumisden, W.**—Notes on irrigation, roads and buildings and on the water supply of towns. George Routledge and Sons, London. Price; 45 s. net.
- Mörsch, E.**—Der Eisenbetonbau. Fünfte, vollständig neu bearbeitete und vermehrte Auflage. 1. Band. I. Hälfte. Mit 353 Textabbildungen. Konrad Wittwer, Stuttgart. 1920. Preis geb. 43.20 M.
- Murphy, D. W.**—Drainage engineering.  $6 \times 9$ , 178 P., illustrated, cloth. Mc Graw-Hill Book Co., New York & London.
- Muzak, V.**—Agenda du béton armé (1920), Carnet de poche de format  $15 \times 10$  Centimètres, avec 322 figures et 66 exemples de calculs. Bruxelles, 50, rue de la Loi. Prix: relié, 18 francs.
- Pacoret, E.**—La technique de la Houille branche et des Transports d'énergie électrique.—Tome II. Un volume  $16 \times 25$  de VI.—462 P., avec 270 figures et 2 plaques. Dunod, éditeur, Paris. Prix; 69 francs.
- Peier, H.**—ZahlenTabellen und vereinfachte Formeln für Eisenbeton und Hohlstein Konstruktionen nach den neuesten Schweizer. Mit zahlreichen Figuren und Beispielen aus der Praxis. Hermann Peier, Höngg 1920. Preis geh. 6.80 fr., geb. 8.30 fr.
- Pigeaud, G.**—Résistance des matériaux et élasticité. Un volume in-8° raisin ( $250 \times 162$ ) de XVI—772 pages, avec 201 figures dans le texte. Gauthier-Villars et Cie, Paris. Prix; 64 francs.
- Prölls, O.**—Graphisches Rechnen. Mit 164 Figuren im Text. B. G. Teubner, Leipzig u. Berlin, 1920. Preis Kart. 2 M., geb. 2.65 M.
- Rose, W. N.**—Mathematics for engineers. Part II. Chapman, Hall and Co., London. 1920. Price; 18 s. 6d.

- Spiegel, G.—*Mehrteilige Rahmen*, Mit 170 Textabbildungen. Julius Springer, Berlin, 1920. Preis geh. 18 M.
- Willems, G.—*Eléments de résistance des matériaux*. Un volume in-8° de 228 P., avec 173 figures. Béranger, éditeur, Paris. Prix ; relié, 15 francs.
- Wolf, P.—*Städtebau. Das Formproblem der Stadt in Vergangenheit und Zukunft*. Klinkhardt & Biermann, Leipzig, 1920. Preis geh. 20 M., geb. 25 M.
- Annuaire du Ministère des Travaux publics. Année 1920. Un volume in-8° de 864 pages. A. Dumas, éditeur, 6, rue de la Chaussée-d'Antin. Prix ; broché, 20 fr.
- Committee of the Institution of Civil Engineers, Appointed to Investigate the Deterioration of structures of timber, metal, and concrete exposed to the action of sea water. Published by the Committee, and to be purchased from H. M. Stationery Office, London. Price: 30 s.

## 内外諸雑誌主要題目

### Annales des Ponts et Chaussées Partie Technique.

90<sup>e</sup> Année 9<sup>e</sup> Série—Tome LIV. Vol. I. Jan.—Fév. 1920. 1. Influence de la capacité des bateaux sur les frais de transport par canaux. 23 p. 2. Les digues pour les artificiels récemment Construites en Italie. Diges "a gravita" 34 p. 3. Note sur la détermination des efforts auxquels les voûtes des Souterrains sont appelées à résister. 8 p. 4. Le Nil Argentin (Rio Negro) et les irrigations dans sa vallée. Résumé d'un ouvrage de M. Soldano, professeur d'hydraulique agricole à l'Université de la Plata. 8p.

### Annales des Travaux Publics de Belgique.

Tome XXI. 1 Fascicule Février 1920. 1. Étude sur les fondations par empattements (béton, béton armé, maçonnerie, etc.). 81 p. 2. Les travaux de déblaiement des ponts détruits du canal de Gand à Terneuzen et d'enlèvement des torpilleurs, bateaux d'intérieur et matériel d'entrepreneur coulés dans le canal. 13 p. 3. Les enclenchements du système Stevens entre leviers d'aiguilles et de signaux.—Note complémentaire. 6p.

### Canadian Engineer

- \* Vol. 38. No. 19. May 6, 1920. 1. Comprehensive Topographical surveys required. 2 p.  
 Vol. 38. No. 20. May 13, 1920. 1. Hydro-electric development at Ranney's Falls. 3 p. 2. Alumina hydrate in mechanically filtered water. 2 p.  
 Vol. 38. No. 21. May 20, 1920. 1. Bulking measurement of surface area. 4 p. 2. New method of gunite wall construction reduces cost to fifty cents per square foot. 2½ p.  
 Vol. 38. No. 22. May 27, 1920. 1. Hyman Tannery building, Lond, Ont. 2½ p. 2. Nipigon River power development, 3p.  
 \*\* Vol. 38. No. 23. June 3, 1920. 1. Dam that withstood unusual service test. 2 p. 2. The value and application of a traffic census. 2 p.

### Concrete and Constructional Engineering

- Vol. XV. No. 5. May, 1920. 1. The water supply of Sekondé, Gold Coast. 10 p. 2. Con-

crete roads. 4 p. 3. The building trades' exhibition. 11 p. 4. Bridge construction in reinforced Concrete. 7 p.

**Vol. XV.** No. 6. June, 1920. 1. Calculation of rigid frames. 6 p. 2. Reinforced concrete roads at the Portsmouth gas works. 6 p. 3. Notes on the deterioration of structures in sea water. 3½ p. 4. New developments in surface-treated concrete and stucco. 6 p. 5. German fire tests on reinforced concrete houses. 5 p. 6. The consistency of Portland Cement, mortar, and Concrete. 7½ p.

### Electric Railway Journal

**Vol. 55. No. 20.** May 15, 1920. 1. Anglo-Argentine tramway maintenance practice II. 5 p. 2. Why do the mechanical rail joints become loose? 1½ p.

**Vol. 55. No. 21.** May 22, 1920. 1. The City of Boston and its system of trolley cars. 6 p. 2. N. E. L. A. discusses heavy traction. 5 p.

**Vol. 55. No. 24.** June 12, 1920. 1. The significance of steam railroad electrification. 4 p. 2. Bonding and bond testing on electrified steam roads. 2 p.

**Vol. 55. No. 25.** June 19, 1920. 1. Installing safety control and air brake equipment. 4½ p.

### Engineering

**Vol. CIX. No. 2834.** Apr. 23, 1920. 1. Grouting operations, Catskill Water Supply. 4 p.

**Vol. CIX. No. 2835.** Apr. 30, 1920. 1. Collision dynamics. 2 p. 2. Deterioration of material used in harbour construction. 3 p.

**Vol. CIX. No. 2836.** May 7, 1920. 1. Collision dynamics. 2 p. 2. Iron Portland cement. 1½ p. 3. Grouting operations, Catskill water Supply. 4 p.

**Vol. CIX. No. 2838.** May 21, 1920. 1. Collision dynamics. 1½ p. 2. The effect of initial temperature upon the physical properties of steel, 3½ p.

**Vol. CIX. No. 2839.** May 28, 1920. 1. The determination of the loads on crane wheels. 2 p. 2. Collision dynamics. 2 p.

**Vol. CIX. No. 2840.** June 4, 1920. 1. Narrow-gauge railways on the Western front. 2½ p.

**Vol. CIX. No. 2841.** June 11, 1920. Design of a long-span reinforced concrete girder. 2 p.

**Vol. CIX. No. 2842.** June 18, 1920. 1. The Birkenhead works of Messrs. Cammell Laird and Co. Limited. 8 p. with 4 plates. 2. Excavator for trench digging 1½ p. 3. Restoration of the Cernavoda-Danube Bridge. 3 p. 4. The effects of holes, cracks and other discontinuities in ships plating. 4 p.

**Vol. CIX. No. 2843.** June 25, 1920. 1. The Works of Messrs. William Foster and Co. Ltd., Lincoln. 2 p. with 4 plates. 2. Fourier, Besel and Clifford 200-ton steam floating Crane. ¾ p. with 1 plate. 3. Pelton wheel reconstruction. 2½ p.

### Engineering and Industrial Management

**Vol. 3. No. 17.** Apr. 22, 1920. 1. Methods of handling shop drawings. 2 p. 2. Conveying supplement. 8 p.

**Vol. 3. No. 18.** Apr. 29, 1920. 1. The design of riveted joints. 2 p. 2. Fatigue study—First step in better industrial relations. 4 p.—

**Vol. 3. No. 19.** May 6, 1920. 1. The application of pneumatic tools in modern engineering practice. 1½ p. 2. Methods of regulating the speed of gravity rope way. 2 p. 3. Modern high-speed electric telpherage and its application in chemical works. 2 p.

**Vol. 3. No. 21.** May 20, 1920. 1. Conveying: Use of mechanical shovelling and conveying

devices in tunnel driving and mining operations. 6 p. 2. Progress of handling Machinery in America. 2 p.

**Vol. 3. No. 22.** May 27, 1920. 1. Applied methods of scientific Management. 2p. 2. Methods of examination of lubricating oils.  $4\frac{1}{2}$  p. 3. The training of electric welders. 3p.

**Vol. 3. No. 23.** June 3, 1920. 1. Conveying: The Belmont trucking system; Progress of handling; Machinery in America; Modern methods of Conveying and storing clay.  $7\frac{1}{2}$  p.

## Engineering News-Record

**Vol. 84. No. 21.** May 20, 1920. 1. Activated sludge plant for the city of Milwaukee.  $6\frac{1}{2}$  p. 2. Teredos destroy piles in waters not previously infected. 2p. 3. Gibraltar water-supply dam completed in Santa Barbara. 2p. 4. Triangulation simplified by army co-ordinate system. 6p. 5. Measuring upward pressure under a masonry dam. 2p.

**Vol. 84. No. 22.** May 27, 1920. 1. Stray points in structural steel design—Part I.  $2\frac{1}{2}$  p. 2. New York to build steamship piers on Staten Island. 4p. 3. Denver & Rio grande termina at mountain summit.  $3\frac{1}{2}$  p.

**Vol. 84. No. 23.** June 3, 1920. 1. Reservoir and plant for New Southern water power.  $7\frac{1}{2}$  p. 2. Asphaltic concrete roads as built in California.  $1\frac{1}{2}$  p. 3. Alkali damages part of Winnipeg concrete aqueduct. 1 p. 4. Ease of Operation governs design of New Seattle.  $2\frac{1}{2}$  p. 5. Stray points in structural steel design—Part II.  $3\frac{1}{2}$  p. 6. Twin concreting plants for large foundation area.  $1\frac{1}{2}$  p. 7. Timber arch bridge of unusual type in service seventy-three years. 1 p.

**Vol. 84. No. 24.** June 10, 1920. 1. Organizing conference lays foundation for federated American engineering society. 6p. 2. Design of dams and Auxiliary structures of Miami conservancy district. 7 p. 3. Marine railway for 5,000-ton ships at Astoria, Ore. 3p. 4. Engine terminal for mountain division in Utah.  $2\frac{1}{2}$  p. 5. Wide-spaced stockpiles and wet haulage successful. 2 p. 6. Precast concrete slabs for small irrigation structures. 2 p.

**Vol. 84. No. 25.** June 17, 1920. 1. Results of completely metering. Omaha water supply. 1 p. 2. Flint water filter improvements and reconstruction. 3 p. 3. Detroit's New 350-million gallon filtration plant.  $2\frac{1}{2}$  p. 4. Concrete destroyed in vacuum in Calaveras dam culvert  $1\frac{1}{2}$  p.

**Vol. 84. No. 26.** June 24, 1920. 1. Precast concrete roof trusses in Panama pier shed.  $6\frac{1}{2}$  p. 2. Mare Island pontoon crane of 150-ton capacity. 3 p. 3. Shrinkage of loosely filled earthwork in embankments. 4 p.

**Vol. 85. No.** July 1, 1920. 1. Convention of American Water Works Association.  $4\frac{1}{2}$  p. 2. Annual meeting of American Society for Testing Materials. 5 p. 3. Lining irrigation canals with concrete without forms.  $1\frac{1}{2}$  p.

## Engineering World

**Vol. 16. No. 7.** May, 1920. 1. Plan of Chiang's water system—1920-1955.  $8\frac{1}{2}$  p. 2. N.Y.—N. J. commissions reject concrete blocks for tunnel.  $4\frac{1}{2}$  p. 3. Termite proof building Construction in Formosa.  $4\frac{1}{2}$  p.

**Vol. 16. No 8.** June, 1920. 1. University of Washington to build large stadium. 1 p. 2. Gunite maintenance of Chicago's drainage channel walls.  $2\frac{1}{2}$  p. 3. A deep water channel from the lakes to the sea. 3 p. 4. Concrete caissons for breakwater construction.  $4\frac{1}{2}$  p. 5. Dredging New Orleans Harbor—Performance and tests of centrifugal dredging pumps,  $3\frac{1}{2}$  p.

## Highway Engineer and Contractor

**Vol. 2. No. 5.** May, 1920. 1. Concrete highway construction on Long Island.  $3\frac{1}{2}$  p. 2. Highway economics. 2 p. 3. Impact tests on highways. 3 p. 4. Sampling highway pavements.  $2\frac{1}{2}$  p. 5. The fundamentals of modern highway construction.  $2\frac{1}{2}$  p.

**Vol. 2. No. 6.** June, 1920. 1. The main street of the nation. 3 p. 2. Build highways to serve the needs of state traffic. 1½ p. 3. Charts for comparing and checking costs. 1 p. 4. American Society of Engineers discusses highways. 2½ p.

### The Indian and Eastern Engineer.

**Vol. XLVI. No. 5.** May, 1920. 1. Some details of railway construction. 4 p. 2. Recent concrete construction in India. 1 p.

### La Houille Blanche.

**19<sup>e</sup> Année** No. 39-40. Mars-Avril 1920. 1. Barrages hydrauliques. 4 p.

### Le Génie Civil

**Tome LXXVI. No. 15.** 10 Avril 1920. 1. L'usine hydro-électrique des Vernes, à Livet (Isère). 4 p. 2. Les méthodes industrielles de soudure électrique. 2 p.

**Tome LXXVI. No. 16.** 17 Avril 1920. 1. Le mazout et le pétrole lampant. Leur importation en France, et la conduite projetée du Havre à Paris. 5½ p. 2. Les méthodes industrielles de soudure électrique. 1½ p.

**Tome LXXVI. No. 17.** 24 Avril 1920. 1. Construction, de ponts en maçonnerie, au Maroc. Ponts à deux et à trois anneaux. 6 p. 2. Généralisation de la répétition des signaux sur les locomotives, en France. Appareil Augereau. Commandé par ondes hertziennes. 3½ p.

**Tome LXXVI. No. 18.** 1 Mai 1920. 1. L'emploi du vide et de l'air comprimé pour la filtration. Filtres à immersion et à succion. système Moore. 4 p.

**Tome LXXVI. No. 19.** 8 Mai 1920. 1. Murs de quai en pieux-palplanches en béton armé. Mur de quai de Kenitra (Maroc). 3 p.

**Tome LXXVI. No. 22.** 29 Mai 1920. 1. Pont basculant de 79m 25 de portée sur la rivière de Chicago. 3 p.

**Tome LXXVI. No. 23.** 5 Juin 1920. 1. Eléments de constructions en béton armé avec armatures à enveloppes tubulaires. 1 p.

**Tome LXXVI. No. 24.** 12 Juin 1920. 1. Les tambours filtrants continus. 4 p.

**Tome LXXVI. No. 25.** 19 Juin 1920. 1. Les dispositions techniques spéciales adoptées sur le réseau du Nord pendant la guerre. 2 p.

**Tome LXXVI. No. 26** Juin 1920. 1. Les récents développements de l'utilisation des chutes du Ningara. 6 p.

### Public Works

**Vol. 48. No. 16.** May 1, 1920. 1. Water purification in Flint, Mich. 3 p. 2. Tunneling in silt. 3 p. 3. Sewage sprinkler nozzles. 2 p.

**Vol. 48. No. 17.** May 8, 1920. 1. Hydraulic fill dams for Miami conservancy district. 4 p. 2. Hudson River vehicular tunnel. 3 p.

**Vol. 48. No. 18.** May 15, 1920. 1. The water supply of Tulsa. 4 p. 2. Forms for motor sweeper cost keeping. 2½ p. 3. Hydraulic fill dams for Miami conservancy district. 3 p.

**Vol. 48. No. 19.** May 22, 1920. 1. Sewerage of Daytona, Florida. 2 p. 2. Kenova bridge channel span erection. 2½ p. 3. Granité block on old concrete base. 1½ p. 4. Reinforced concrete highway bridge. 2 p. 5. Disposal of municipal wastes. 2½ p.

**Vol. 48. No. 20.** May 29, 1920. 1. Newark turnpike improvement. 4 p. 2. Taylorsville Dam controlling conduits. 2½ p.

新刊紹介内外情勢主要題目

**Vol. 48. No. 21.** June 5, 1920. 1. Concrete for Miami Conservancy work. 4 p. 2. Traffic on Iowa highways. 1½ p. 3. Constructing a concrete road in Nebraska. 2 p.

**Vol. 48. No. 22.** June 12, 1920. 1. Motor driven centrifugal pumps at Quincy. 3 p., 2. Hetch-Hetchy Aqueduct tunnel. 2 p.

新刊紹介  
内外諸報誌主要題目

### Railway Age

**Vol. 68. No. 21.** May 21, 1920. 1. First unit of St. Paul Union Station completed. 4 p.

**Vol. 68. No. 22.** May 28, 1920. 1. Baltimore & Ohio builds new main line bridge. 2 p.

**Vol. 68. No. 23.** June 4, 1920. 1. Train operation by signal indication. 6 p.

**Vol. 68. No. 24.** June 11, 1920. 1. Train operation by signal indication. 5½ p.

**Vol. 68. No. 25.** June 18, 1920. 1. Train movements facilitated by new bridge. 4 p. 2. Notes on the G. M. & St. Paul electrification. 2½ p.

**Vol. 68. No. 26.** June 25, 1920. 1. The American Society for testing materials. 3½ p.

**Vol. 69. No. 1.** July 2, 1920. 1. An improved grain elevator for export service. 4 p.

**Vol. 69. No. 4.** July 23, 1920. 1. The award of the railroad labor board. 5 p. 2. The Sad romance of the Detroit, Toledo & Ironton. 2½ p.

**Vol. 69. No. 5.** July 30, 1920. 1. New Haven builds freight yards at Cedar Hill. 5 p.

**Vol. 69. No. 6.** August 6, 1920. 1. Power and maintenance costs on the St. Paul. 3½ p.

### Railway Gazette.

**Vol. XXXII. No. 20.** May 14, 1920. 1. New coal hoist at Newport docks. 1 p.

**Vol. XXXII. No. 22.** May 28, 1920. 1. Speed indicators and recorders for application to locomotives 2 p. 2. The Liverpool goods stations of the Lancashire & Yorkshire Railway. 5½ p.

**Vol. XXXIII. No. 1.** July 2, 1920. 1. The regulation of high-density passenger traffic. 15½ p 2. The future of British railways. 2 p.

**Vol. XXXIII. No. 2.** July 9, 1920. 1. The electrification of the Belgian State railways. 2 p.

**Vol. XXXIII. No. 3.** July 16, 1920. 1. Improved suburban train services, Great Eastern Railway. 2 p.

**Vol. XXXIII. No. 4.** July 23, 1920. 1. Essential services in railway operations and control. III. 1½ p.

### Railway Maintenance Engineer.

**Vol. 16. No. 7.** June, 1920. 1. Converting winter equipment for maintenance work. 2 p. 2. Why tie renewals vary from year to year 2½ p.

**Vol. 16. No. 7.** July, 1920. 1. Pouring concrete through 50 ft. well holes. 2 p. 2. How a road improved its water supply. 3½ p. 3. How can we increase efficiency. 5 p.

**Vol. 16. No. 8.** August, 1920. 1. Renewing a trestle under heavy traffic. 1½ p.

### Railway Review

**Vol. 66. No. 20.** May 15, 1920. 1. The ramsey surveys for a short-cut line between Pittsburgh and New York. 4½ p.

- Vol. 66. No. 23.** June 5, 1920. 1. Ashmore engine terminal, Lehigh Valley R. R. 6 p. 2. Electrical distribution for modern engine terminals. 5 p.
- Vol. 66. No 24.** June 12, 1920. 1. Snow fighting equipment. 6 p.
- Vol. 66. No. 25.** June 19, 1920. 1. Proceedings of second annual convention A. R. A., section III. Mechanical. 22 p.
- Vol. 66. No. 26.** June 26, 1920. 1. Embankment felling without trestles. 2½ p.
- Vol. 67. No. 1.** July 3, 1920. 1. The chemistry of railroading. 4 p. 2. Interlocking extensions at Kansas City Union Station terminal. 3p.
- Vol. 67. No. 2.** July 10, 1920. 1. Railway terminal improvements on the Seattle water front. 7 p. 2. Use of electric tie tampers on the Michigan Central R. R. 2½ p.
- Vol. 67. No. 7.** August 14, 1920. 1. Systematic destruction of Serbian railways by enemy armies. 3½ p.
- Vol. 67. No. 8.** August 1, 1920. 1. "High Line" Construction for the Kansas City passenger terminal. 7 p.

新刊紹介

### Schweizerische Bauzeitung

- Band LXXV. No. 17.** 24. April 1920. 1. Das Kräfspiel im Kreugelenk. 2 p. 2. Die Wasserkraftanlage "Gösgen" an der Aare der A.-G. "Elektrizitätswerk Olten-Aarburg." 1½ p. 3. Ideen-Wettbewerb für die Bebauung des Elfenau-und Mettlen-Gebiets in Bern und Muri 2 p.
- Band LXXV. No. 18.** 1. Mai 1920. 1. Die Wasserkraftanlage "Gösgen" an der Aare. 2 p. 2. Das neue Warnungssignal der Great Eastern-Bahn (System Tiddeman). 3 p. 3. Ideen-Wettbewerb für die Bebauung des Elfenau-und Mettlen Gebiets in Bern und Muri. 1 p.
- Band LXXV. No. 19.** 8. Mai 1920. 1. Die Wasserkraftanlage "Gösgen" an der Aare. 1½ p.
- Band LXXV. No. 20.** 15. Mai 1920. 1. Von der Elektrifizierung der Rhätischen Bahn. 4 p. 2. Ueber die Beziehungen der wissenschaftlichen Forschung der Technik. 4½ p.
- Band LXXV. No. 21.** 22. Mai 1920. 1. 1C+C1 Güterzug-Lokomotiven für die Gotthardlinie der S. B. B. 3½ p. with 1 plate.
- Band LXXV. No. 22.** 29. Mai 1920. 1. 1C+C1 Güterzug-Lokomotiven für die Gotthardlinie der S. B. B. 4½ p.
- Band LXXV. No. 23.** 5. Juni 1920. 1. Hydraulische Folgerungen aus Beobachtungen in Trostberg. ½ p. 2. Die Wasserkraftanlage "Gösgen" an der Aare der A.-G. Elektrizitätswerk Olten-Aarburg. 4½ p.
- Band LXXV. No. 24.** 12. Juni 1920. 1. Die Bedeutung des Bausystems bei der Ausführung von Eisenbahntunneln. 3 p.
- Band LXXV. No. 25.** 19. Juni 1920. 1. Die Wasserkraftanlage "Gösgen" an der Aare der A.-G. "Elektrizitätswerk Olten-Aarburg." 4 p.

内外諸雑誌主要題目

### The Engineer

- Vol. CXXIX. No. 3358.** May 7, 1920. 1. A universal measuring machine. 1½ p.
- Vol. CXXIX. No. 3359.** May 14, 1920. 1. Submarine signalling. 3p. 2. The Dorada ropeway in Colombia. 1½ p.
- Vol. CXXIX. No. 3360.** May 21, 1920. 1. Links in the history of Engineering. No. XII. 2 p. 2. The iron and steel institute. 3½ p.
- Vol. CXXIX. No. 3361.** May 28, 1920. 1. Electrical transmission in Holland. 1 p. 2. A concrete machine shop. 1 p.
- Vol. CXXIX. No. 3363.** June 11, 1920. 1. A large reinforced concrete pile driver. 1½ p.
- Vol. CXXIX. No. 3364.** June 18, 1920. 1. Rapid filtration plant at Birmingham. 2p.

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**Vol. CXXIX.** No. 3365. June 25, 1920. 1. Underpinning and foundations of heavy buildings. No. 1. 2½ p. 2. The water resources of the Birmingham district. 3 p.

### The Journal of the Engineers' Club of Philadelphia

**Vol. XXXVII.** No. 187. June, 1920. 1. Control of blooming mill tables and screw-downs. 5p.

**Vol. XXXVII.** No. 188. August, 1920. 1. City planning and zoning in Philadelphia. 11p.

### The Military Engineer

**Vol. XII No. 63.** May-June, 1920. 1. Pipe-line dredging in the open gulf of Mexico. 4p. 2. Governmental investigation of river and harbor improvements. 4 p.

**Vol. XII. No. 64,** July-August, 1920. 1. Lake Washington ship canal, Seattle, Wash. 10 p.

### The Road Maker

**Vol. 14. No. 5.** May, 1920. 1. Gumbo vanquished in building the Arkansas-Louisiana highway. 2 p. 2. Use of tractors in Salmon Lake Dam construction. 2½ p. 3. Bridge building on the California highway system. 2 p. 4. Surface treatment on Macadam and gravel. 3 p.

**Vol. 14. No. 6.** June, 1920. 1. Progress on the C., B. & Q. track elevation. 3½ p. 2. On the road between Detroit and Toledo. 1½ p. 3. Progress and hard-surface roads in Bourbon Co., Kansas. 1 p. 4. Maintenance of Macadam and gravel roads in Kentucky. 1½ p. 5. Drainage and sub-drainage for county roads. 2p. 6. Bituminous macadam pavements. 1½ p.

### Water and Water Engineering

**Vol. XXII. No. 256.** April 20, 1920. 1. Data relating to water power resources. 2p. 2. Recent advances in utilisation of water power. 3p.