

## 新刊紹介

土木學會誌 第八卷第三號 大正十一年六月

- Babbitt, H. E.—Sewerage and sewage treatment. 6×9, 531 P., illustrated. Cloth. John Wiley & Sons, New York. Price: \$5. net.
- Brunton, D. W. and Davis, J. A.—Modern tunneling, Second edition. 6×9, 612P., 120 illustrations, Cloth. John Wiley & Sons, New York. Price: 6.50.
- Cauer, W.—Eisenbahnausrüstung der Häfen. Mit 51 Abbildungen. Julius Springer, Berlin. Preis, geh: 12 M.
- Foerster, Max.—Taschenbuch für Bauingenieure. In zwei Teilen, 2399 Seiten, mit 3195 Abbildungen. Julius Springer, Berlin. Preis, geb: 160 M.
- Hoepfner, K. A.—Grundbegriffe des Städtebaues. Erster Band, J. Springer, Berlin, 1921. Preis; 45 M.
- Kidder & Nolan.—Architect's and builder's handbook. 17th edition. 1907 P., illustrated. John Wiley, New York, 1921. Price: \$7. net.
- Kirchhoff, R.—Die Statik der Bauwerke. I. Band. W. Ernst und Sohn, Berlin, 1921. Preis: 66 M.
- Magnel, G.—Calcul pratique des poutres continues en béton armé. 15×25 cm., 60 P., et planches. Van Rysselberghe & Rombaut, Grand. Prix: 30 fr.
- Mesnager, A.—Cours de béton armé. Un volume 21×27, de XV-534 P., avec 212 figures et grande's planches hors texte. Dumod, éditeur, Paris. Prix: 75 fr.
- Mills, A. P.—Materials of construction: Their manufacture and properties. Second edition. 6×9, 476 P., 192 illustrations, cloth. John Wiley & Sons, New York. Price: \$4.
- Otzen, R.—Handbibliothek für Bauingenieure. II Teil. Eisenbahnwesen. 6. Band: Eisenbahn—Hochbauten. J. Springer, Berlin, 1921. Preis: 20 M.
- Pereire and Jolivet.—Les chemins de fer de l'avenir (The railways of the future) One volume in 4° (10½×8½ins.), X+212 pages with 5 maps, 58 diagrams, and numerous tables in the text. Gauthiers—Villars, Paris, 1921. Paper copies: 10 fr.
- Powers, W. L.—Land drainage. 9×6, 270 P., illustrated, cloth. John Wiley & Sons, New York. Price: \$2.75
- Saliger, R.—Praktische Statik. Einführung in die Standberechnung der tragwerke mit besonderer Rücksicht auf den Hoch-und Eisenbetonbau. Mit 568 Abbildungen im Text. Franz Deuticke, Wien u. Leipzig, 1921. Preis, geb: k. 1100.
- Schau, A.—Der Eisenbahnbau. I. Teil. Allgemeine Grundlagen. Bahngestaltung. Grundzüge für die Anlage der Bahnen. 4 Verbesserte Auflage. B. G. Teubner, Berlin und Leipzig, 1921. Preis: 9.6M.
- Zucker, P.—Die Brücke. 203 Seiten in 4°, Mit 83 Textabb. Ernst Wasmuth A.-G., Berlin, 1921. Preis, geh: 90 M.

新刊紹介  
内外諸雜誌主要題目

## 内外諸雜誌主要題目

## 工 學

第九卷 第四號 (第九十六號) 大正十一年四月十日

1. 田中式シムプレックス混泥土杭の實施 佐藤廉平. 4½頁
2. アスファルト鋪装と混合機 石井佐太郎. 5頁
3. 煉瓦鋪道施工の大要 程島五郎. 9頁

**Annales des Ponts et Chaussées Partie Technique**

91<sup>e</sup> Année. 11<sup>e</sup> Série—Tome LXV. Vol. VI. 1. Idées générales et pratiques pour l'établissement d'un avant-projet de station marémotrice avec usine régulatrice. Par M. Bare. 38 p. 2. Expériences sur des déversoirs à nappe libre avec contraction latérale. Par M. Hégly. 100 p.

**Bulletin of the International Railway Association**

Vol. IV. No. 1. January, 1922. 1. On the question of goods (freight) stations (Subject X for discussion at the ninth congress of the International Railway Association). By Edilio Ehrenfreund. 24 p. 2. On the question of reinforced concrete (Subject IV for discussion at the ninth congress of the International Railway Association). By P. M. Bälw. 82 p. 3. On the question of electric traction (Subject VIII for discussion at the ninth congress of the International Railway Association). By Mr. Sabouret. 16 p. 4. On the question of good (freight) stations (Subject X for discussion at the ninth congress of the International Railway Association). By Mr. Jullien and Mr. Moutier. 42 p. 5. On the question of the construction of the road bed and of the track (Subject I for discussion at the ninth congress of the International Railway Association). By Mr. Henry and Mr. Caudelher. 29 p.

Vol. VI. No. 2. February. 1. On the question of reinforced concrete (Subject IV for discussion at the ninth congress of the International Railway Association). By C. Leemans 12 p. 2. On the question of workmen's dwellings (Subject XVI for discussion at the ninth congress of the International railway Association). By Fausto Lolli. 60 p. 3. The reconstruction of the organization and administration of the Swiss federal railways. By R. Winkler. 30 p. 4. Proposed legislation regarding the administration of the Spanish railways. By Pierre Leseur. 7 p.

Vol. IV. No. 3. March, 1922. 1. On the question of locomotive cab signals (Subject XII for discussion at the ninth congress of the International railway Association). By Mr. Jules Verdéyen. 16 p. 2. On the question of terminal stations for passengers (Subject IX for discussion at the ninth congress of the International Railway Association). By Louis Maccallini. 22 p.

**Canadian Engineer**

Vol. 42. No. 11. March 14, 1922. 1. Extension to Shawinigan hydro-electric plant. By Julian C. Smith. 7 p.

Vol. 42. No. 12. March 21, 1922. 1. Power development at high falls, Que. By A. Langlois. 1½ p.

Vol. 42. No. 13. March 28, 1922. 1. Maryland Street concrete arch bridge, Winnipeg. By J. F. Greene. 3½ p. 2. How should provincial highways be financed? By F. H. Richardson. 1½ p.

Vol. 42. No. 14. Apr. 4, 1922. 1. Developments in photographic surveying. By M. P. Bridgland. 5 p.

Vol. 42. No. 15. Apr. 11, 1922. 1. Smoky falls development on the Sturgeon River. By C. C. Irvine. 2 p.

**Compressed Air Magazine**

Vol. XXVII. No. I. January, 1922. 1. Methods of handling very high pressures. By P. W. Bridgman. 2½ p. 2. Compressed air operates quarry shovel. 1½ p.

Vol. XXVII. No. II. February, 1922. 1. The successful sinking of two great caissons. By Robert G. Skerrett. 3 p. 2. Seajaquada Creek, a difficult drilling operation. By G. W. Winslow. 2 p. 3. Improving North American sea ports for world trade. By Eugene P. McCrorcken. 6 p. 4. Canal of Marseilles to the Rhone. By H. Villetard. 3 p.

Vol. XXVII. No. III. March, 1922. 1. Increasing Niagara Falls power development by 200,000 H.P. By G. W. Morrison. 4 p. 2. Bridging the Delaware between Philadelphia and Camden. By Sidney Mornington. 3½ p.

**Der Eisenbau**

13 Jahrgang. Nr. 1. 10. Januar, 1922. 1. Die Ostrawitzabträge in Mährisch-Ostrian. Von.

- Theodor Paul. 10 p. 2. Der Windverband von Hangebrücken sehr grosser Spannweiten. W. Schachenmeier. 2½ p.
13. Jahrgang. Nr. 2. 17. Februar, 1922. 1. Die Kippplast des I-Trägers. Von G. Unold. 5½ p. 2. Breitflanschtige Träger. Von Schaper. 1½ p. 3. Die englischen Versuche über die Stosswirkungen in Eisenbahnbrücken. Von Müllenhoff. 2½ p. 4. Einige Aufgaben über die Knickfestigkeit elastischer Stabverbindungen. 5 p.
13. Jahrgang. Nr. 3. 17. März, 1922. 1. Das Verhalten mechanisch beanspruchter Metalle. Von E. Honegger. 13½ p. 2. Beitrag zur Berechnung statisch Unbestimmter Systeme. Von P. Pasternak. 4 p. 3. Beitrag zur Berechnung der Nebenspannungen. Von K. Tschalyscheff. 1½ p.

### Electric Railway Journal

- Vol. 59. No. 2. Jan. 14, 1922. 1. Two new types of safety cars for Chicago. By Charles Gordon. 7 p.
- Vol. 59. No. 3. Jan. 21, 1922. 1. Rolling girder rails. By R. C. Cram. 5 p.
- Vol. 59. No. 4. Jan. 28, 1922. 1. Electric traction on heavy traffic lines. 4 p. 2. Why electrify the Chilean State railways? 2 p.
- Vol. 59. No. 6. Feb. 11, 1922. 1. Trackless transportation versus rail transportation. By Karl A. Simmon. 4 p.
- Vol. 59. No. 7. Feb. 18, 1922. 1. A Method of valuation of railway special trackwork. By Joseph E. Rapuano. 4½ p. 2. Insuring accuracy in trackwork estimates. By Clifford A. Elliott. 3 p.
- Vol. 59. No. 8. Feb. 25, 1922. 1. Passenger locomotives for Chilean State railways. 5 p. 2. Containers carry freight in Cincinnati. 3½ p.
- Vol. 59. No. 9. Mar. 4, 1922. 1. Trackless transportation and the electric railway. 2½ p.
- Vol. 59. No. 10. Mar. 11, 1922. 1. Nashville traffic survey completed. 7½ p. 2. Necessary physical and mental requirements of platform employees. 2½ p.
- Vol. 59. No. 11. Mar. 18, 1922. 1. New maintenance facilities for New York & Harlem traction lines. 4½ p. 2. Installing shallow-conduit construction in Washington. By D. E. Duun. 3½ p. 3. Specialized repair forces produce better track maintenance. 3 p.
- Vol. 59. No. 12. Mar. 25, 1922. 1. Toronto takes over street railways. 7 p.
- Vol. 59. No. 13. Apr. 1, 1922. 1. Expediting track construction in Toronto. 8 p.

### Engineering

- Vol. CXIII. No. 2923. Jan. 6, 1922. 1. The conservancy of marsh lands. By Ernest Latham. 3½ p. 2. Railway electrification. By Sir Vincent L. Raven. 2 p.
- Vol. CXIII. No. 2924. Jan. 13, 1922. 1. Railway electrification. By Sir Vincent L. Raven. 4 p.
- Vol. CXIII. No. 2928. Feb. 10, 1922. 1. The rapid calculation of ferro-concrete beams. By Auguste Esnouf and Leon Joseph Contancean. 2½ p.
- Vol. CXIII. No. 2929. Feb. 17, 1922. 1. The Walkerburn water power mechanical storage installation. 3½ p. 2. The rapid calculation of ferro-concrete beams. By Auguste Esnouf and Leon Joseph Contancean. 2 p. 3. Activated sludge sewage disposal plant. By Darwin W. Townsend. 3½ p.
- Vol. CXIII. No. 2930. Feb. 24, 1922. 1. The Walkerburn water power mechanical storage installation. 1 p. 2. The rapid calculation of ferro-concrete beams. 2 p. 3. Electric welding. By A. T. Wall. 3 p. 4. Activated sludge sewage disposal plant. 2 p.
- Vol. CXIII. No. 2932. Mar. 10, 1922. 1. The new street viaduct at Dover. 2 p. with 1 plate.
- Vol. CXIII. No. 2933. Mar. 17, 1922. 1. Statically indeterminate and non-articulated structures. By F. C. Lea. 2 p.
- Vol. CXIII. No. 2934. Mar. 24, 1922. 1. Statically indeterminate and non-articulated structures. By F. C. Lea. 1½ p.

- Vol. CXIII, No. 2935. Mar. 31, 1922. 1. Deep water quays. By Ernest Latham. 3½ p. 2. Statically indeterminate and non-articulated structures. By F. C. Lea. 1½ p.

## Engineering News-Record

- Vol. 88, No. 4. Jan. 26, 1922. 1. Erection of Hurricane Gulch arch bridge in Alaska. By E. G. Amesbury. 2½ p. 2. Collapse of Palm Beach concrete arch bridge. 2 p. 3. Road builders' convention stresses financial and administrative sides of highway work. 4 p. 4. Liquefied rubber fire wrecks concrete roof. By A. B. MacMillan. 3 p.
- Vol. 88, No. 5. Feb. 2, 1922. 1. Open-well piers and subdivided Warren trusses of Bismarck-Mandan Bridge. By C. A. P. Turner. 3½ p. 2. Some features of the Chemung River concrete bridge. 4½ p.
- Vol. 88, No. 6. Feb. 9, 1922. 1. Facts of the Knickerbocker theater collapse. 6 p. 2. Antenna tower erection for New York Radio Central. By David S. Fine. 4½ p. 3. Live-loads for Motor-truck storage. 4 p. 4. Sewage screen and pump station at Pleasantville, N. J. By W. De Witt Vosbury. 2 p. 5. Special concrete specified for Jamaica Bay Viaduct. 4 p. 6. City vs. bi-state plans for port of New York. 3 p.
- Vol. 88, No. 7. Feb. 16, 1922. 1. Synura and other organisms in Catskill water supply. By William W. Brush. 5½ p. 2. Reminders for the designer of steel structures. By R. Fleming. 2 p. 3. Design and construction of welded steel and wood-stave pipe line for Butte Water Co. By Eugene Carroll. 4½ p. 4. Tests on absorptive qualities of concrete blocks. By Stanton Walker. 2½ p.
- Vol. 88, No. 8. Feb. 23, 1922. 1. Building a rib-arch concrete bridge in Arkansas. By C. A. Prokes. 3½ p. 2. Waterproofing a leaky reservoir at Nashville, Tenn. 2 p. 3. Paving mixers and finishing machines. 3½ p.
- Vol. 88, No. 9. Mar. 2, 1922. 1. Broken section of 36 in. pipe line burned out by electric torch under 50 ft. of water. By William W. Brush. 2½ p. 2. Large quarry rock crushing and screening plant. By Hilmar F. Smith. 2 p. 3. Controlling a Mountain torrent in Switzerland. By Karl Haller. 3 p. 4. A \$60,000,000 addition to Boston district water supply. 3 p. 5. New type of trunnion bascule bridge: Wabash Ry. 2 p.
- Vol. 88, No. 10. Mar. 9, 1922. 1. Railway ditching machines and performance Records. 3½ p. 2. Driving a five-mile rock tunnel for Japan railway. 3½ p. 3. Water proofing, Joints and drainage in concrete bridge. 2½ p. 4. Repairing the rolling parts of two Bascule bridges. By J. B. Humley. 3½ p.
- Vol. 88, No. 11. Mar. 16, 1922. 1. Huge water storage projects for New Jersey district. 5 p. 2. Thin concrete lining successful in irrigation canals. By R. C. E. Weber. 2 p. 3. Wind pressures at high elevations and their application to radio towers. By R. Fleming. 4½ p. 4. Tidal characteristics and their importance to engineers. By G. T. Rude. 3 p. 5. Railway curves: Super-elevation and Maintenance—I. By E. E. R. Tratman. 3½ p. 6. German sewage-works for houses and public buildings. By Karl Haller. 1½ p. 7. Concrete dam 22 feet high built with traveling form. 1 p.
- Vol. 88, No. 12. Mar. 23, 1922. 1. High head impulse wheels at New Feather River plant. 4 p. 2. Design of overhead supports for outdoor piping systems. By W. S. Morrison. 2 p. 3. Classification and activation for Indianapolis sewage. By C. H. Hurd. 5 p. 4. Railway Curves Super-elevation and maintenance—II. By E. E. R. Tratman. 4 p.
- Vol. 88, No. 13. Mar. 30, 1922. 1. Steel rib reinforcement used for concrete arch centers. 5½ p. 2. Notes on canal projects in Southwestern Germany. By Karl Haller. 2 p. 3. Second railway cantilever bridge over "reversing falls." 1 p. 4. Field experiments on a practical irrigation rating box. By C. C. Jacob. 1½ p. 5. Two committees charge Knickerbocker collapse to twisting failure of truss end. 6 p.

## Engineering World

- Vol. 20, No. 1. January, 1922. 1. Wells Street bridge construction. By R. F. Imler. 7 p. 2. Decatur's earth and concrete impounding dam, completed. By L. N. Fisher. 3 p. 3. Electric shovels in construction of power canal. 3 p. 4. Pumping units of savage rapids irrigation dam. By George E. Edwards. 1½ p.
- Vol. 20, No. 2. February, 1922. 1. Substructure for Madison Street viaduct. By R. F. Imler. 3½ p. 2. 8400 acres of overflow land reclaimed near Portland, Ore. By George E. Edwards.

- 1 p. 3. Treated timber for highway construction. By P. R. Hicks. 2 p. 4. Wood and concrete piling. 6½ p.

## Journal of the Western Society of Engineer

- Vol. XXVII. No. 2. February, 1922. 1. Present day aspects of the refuse disposal problem. By Samuel A. Greeley. 14 p.  
Vol. XXVII. No. 3. March, 1922. 1. The economic reasons for building the Clarks Summit-Hallstead cutoff. By George J. Ray. 19 p.

## La Houille Blanche

- 20<sup>e</sup> Année, No. 59-60. Nov.-Dec., 1921. 1. L'Usine hydroélectrique Drac-Romanche, à Pont-de-Claix (Isère). Par P. Ducrest. 9½ p. 2. Méthode générale de calcul des enveloppes cylindriques à section non circulaire. Par P. Cayère. 3½ p.  
21<sup>e</sup> Année, No. 61-62. Jan.-Fév., 1922. 1. Centrale hydroélectrique suisse d'Oltén-Goesgen. Par H. de Watteville. 5 p.  
21<sup>e</sup> Année, No. 63-64. Mar.-Avr., 1922. 1. Le Poste extérieur à 135,000 volts de Goesgen. Par H. de Watteville. 4 p. 2. Abaques et Méthode de Calcul des Pylônes métalliques basés sur les prescriptions officielles italiennes. Par R. Valensi. 4 p. 3. Note sur l'Utilisation des Marées. Par G. Boisnier. 6 p. 4. Les Barrages à Arches multiples en Béton armé. Nouvelles théories et critères d'économie maximum dans les projets. Par J. Boudet. 3½ p.

## Le Génie Civil

- Tome LXXX. No. 1. 7 Jan., 1922. 1. Calcul des poutres à treillis double avec membrures parallèles et montants verticaux sur les appuis seulement. Par Léon Légens. 2 p.  
Tome LXXX. No. 2. 14 Jan., 1922. 1. Procédé de construction, sans cintres, des grands arcs en béton armé. Par Ch. Dantin. 4½ p.  
Tome LXXX. No. 4. 28 Jan., 1922. 1. Les transporteurs aériens à câbles. Emploi des propriétés de la chaînette. Action des charges isolées. Par Cretin. 3 p. 2. Le béton armé et le "ciment fondu". Construction des ouvrages en béton armé à grande portée. Par Henry Lossier. 4 p.  
Tome LXXX. No. 5. 4 Fév., 1922. 1. Le Chemin de fer Métropolitain de Paris. Prolongement de la ligne n°3, de la place Gambetta à la Porte des Lilas, avec raccordement sur la ligne n°7, près de la Porte du Pré-Saint-Gervais. Par L. Biette. 6 p. 2. Les transporteurs aériens à câbles. Tracé et tension des câbles. Action des charges isolées. Par Cretin. 3 p. 3. L'aménagement hydraulique du Haut-Rhône. Projet de dérivation Grésin-Menthoux, avec usine électrique à Grésin. Par C. Gémont. 4 p.  
Tome LXXX. No. 6. 11 Fév., 1922. 1. Calcul des poutres à treillis double avec membrures parallèles et montants verticaux à tous les noeuds d'attache. Par Léon Légens. 4 p.  
Tome LXXX. No. 7. 18 Fév., 1922. 1. Le tracé du chenal maritime, dans l'estuaire de la Seine. 3 p. 2. Abaques pour la détermination des taux de travail dans une poutre rectangulaire en béton armé, soumise à la flexion composée. Par Victor Loup. 2½ p. 3. Pont-rails métallique sur l'Isorno (ligne de Locarno à Domodossola, en Lombardie). 1 p.  
Tome LXXX. No. 8. 25 Fév., 1922. 1. Usine hydro-électrique de la Basse-Isère, à Beaumont-Monteux (Drôme), et transport de l'énergie produite à Saint-Etienne (Loire). Par A. Dumas. 11½ p. 五  
Tome LXXX. No. 9. 4 Mars 1922. 1. La taxation de la vitesse dans les transports de voyageurs. Par Georges Mesnard et G. Peyrabin. 2½ p.  
Tome LXXX. No. 10. 11 Mars 1922. 1. L'électrification du chemin de fer de Paulista (Brésil). 2½ p. 2. Locomotive à essence de 60 chevaux, des Usines Renault. 1½ p.  
Tome LXXX. No. 11. 18 Mars, 1922. 1. La signalisation des chemins de fer de l'Etat belge. Par Lucien Pahin. 2½ p. 2. Travaux préliminaires d'assèchement du Zuiderzée. Par A. Bijls. 1 p.

Tome LXXX. No. 12. 25 Mars, 1922. 1. Concours pour la construction d'un nouveau pont de chemin de fer sur le Fleuve Jaune (Chine). Par Mesnager. 7 p.

Tome LXXX. No. 13. 1 Avr., 1922. 1. Concours pour la construction d'un nouveau pont de chemin de fer sur le Fleuve Jaune (Chine). Par Mesnager. 3 p.

### Organ für die Fortschritte des Eisenbahnwesens

77. Jahrgang. Heft 1. 1. Jan., 1922. 1. Welcher Lastenzug soll in Zukunft dem Baue neuer und zu verstärkender Brücken zu Grunde gelegt werden? Von Kommerell 4 p. 2. Die Blocksperrren mit besonderer Berücksichtigung des Einheitstellwerkes. Von K. Becker. 4 p.

77. Jahrgang. Heft 2. 15. Jan., 1922. 1. Die Frage der durchlaufenden Bremse für Güterzüge in Frankreich. 8 p.

77. Jahrgang. Heft 3. 1. Feb., 1922. 1. Die massgebende Arbeitshöhe der Eisenbahn. 5½ p.

77. Jahrgang. Heft 4. 15. Feb., 1922. 1. Berechnung der Schienen auf Querschwellen. Von G. Barkhausen. 4½ p. 2. Erfahrungen mit Schweißen durch elektrischen Widerstand in Eisenbahn-Werkstätten. Von Bastanier. 2½ p.

### Public Works

Vol. 52. No. 2. Jan., 14, 1922. 1. New London turnpike. 3 p. 2. Up-to-date concrete road construction. 3 p. 3. Pittsburg test highway. By Charles W. Geiger. 2½ p. 4. Hydrogen-ion concentration in water purification. 3 p. 5. Constructing Wichita Falls sewers. 1 p.

Vol. 52. No. 3. Jan. 21, 1922. 1. Sewage treatment in imhoff tanks. By Russell Riker. 3½ p. 2. New London turnpike—II. 2½ p.

Vol. 52. No. 5. Feb. 4, 1922. 1. Constructing Detroit filter plant. 2 p. 2. Operating filtration plants. 1½ p.

Vol. 52. No. 6. Feb. 11, 1922. 1. North Avenue viaduct, Milwaukee. 3 p. 2. Progress of the Pittsburg road tests. By Charles W. Geiger. 2½ p.

Vol. 52. No. 7. Feb. 18, 1922. 1. Rolled bases for brick pavements. 2 p.

Vol. 52. No. 8. Feb. 25, 1922. 1. Scoring water and sewage treatment works. By Francis E. Daniels. 4 p. 2. Where the good roads dollar goes. By J. E. Pennybacker. 2 p.

Vol. 52. No. 9. Mar. 4, 1922. 1. Activated sludge sewage disposal plant at Gastonia, N. C. By Fred W. Simonds. 3 p. 2. Mixing and placing 50,000 yards of concrete. 1½ p.

Vol. 52. No. 10. Mar. 11, 1922. 1. Constructing Conner's Creek sewer. 3 p. 2. Garbage collection in St. Paul. By James W. Routh. 2 p.

Vol. 52. No. 11. Mar. 18, 1922. 1. Woodland place viaduct. By James Owen. 2½ p. 2. Milwaukee city planning. 2 p.

Vol. 52. No. 13. Apr. 1, 1922. 1. Ohio basin dock wall construction at Buffalo. 4 p. 2. Water resources of New Jersey. 3 p.

### Railway Age

Vol. 72. No. 2. Jan. 14, 1922. 1. Nickel plate is completing grade separation work. 4 p.

Vol. 72. No. 3. Jan. 21, 1922. 1. The Chilean Railroad problem and its solution. By David C. Hershberger. 4½ p.

Vol. 72. No. 4. Jan. 28, 1922. 1. Wood preservers discuss economics of ties. 4 p.

Vol. 72. No. 5. Feb. 4, 1922. 1. Revised station plans embody new features. 4 p.

Vol. 72. No. 8. Feb. 25, 1922. 1. An engine terminal for economical operation. By G. W. Tutun. 4 p. 2. Modern methods of handling package freight. By G. Marks. 2 p.

Vol. 72. No. 9. Mar. 4, 1922. 1. Railway mail terminal will handle large tonnage. 3 p. 2. The Federal Signal Company's audible signal. 1 p. 3. Establishing icing facilities on a large scale. By W. C. Phillips. 1½ p.

- Vol. 72. No. 10. Mar. 11, 1922. 1. Katy builds freighthouse of fireproof construction. 2½ p.  
2. Problem of the government railways in Canada. By W. T. Jackman. 4 p.
- Vol. 72. No. 11. Mar. 18, 1922. 1. Effects of electric power used for traction. By Chas. F. Scatt. 3 p. 2. Problem of the government railways in Canada. By W. T. Jackman. 3 p.
- Vol. 72. No. 12. Mar. 25, 1922. 1. Wheeling & Lake Erie watches cost factors closely. By Charles W. Foss. 3½ p. 2. A means of determining the average life of ties. By V. K. Hendricks. 4½ p.
- Vol. 72. No. 13. Apr. 1, 1922. 1. Completing the government railroad in Alaska. 4½ p. 2. Vacuum brake tests on English freight trains. 2½ p. 3. Electrical operation in mountain districts. 2 p.
- Vol. 72. No. 14. Apr. 8, 1922. 1. Remarkable improvement shown by Pennsylvania. 3 p. 2. Bridge slabs waterproofed before erection. By Harry B. Glisson. 3 p.

### Railway Maintenance Engineer

- Vol. 18. No. 1. January, 1922. 1. Renewing a bridge without falsework. By A. B. Corthell. 1½ p.  
2. Philadelphia & Reading reclaims frogs by unique methods. 2 p.
- Vol. 18. No. 2. February, 1922. 1. A long experience with creosoted timber on the Santa Fe. By A. F. Robinson. 3 p. 2. Getting the maximum performance out of locomotive cranes. 4 p.
- Vol. 18. No. 3. March, 1922. 1. Novel methods feature turntable renewal. By R. G. Aylsworth. 2½ p. 2. Railway crossings should receive more careful attention. By E. D. Swift.
- Vol. 18. No. 4. April, 1922. 1. Laying rail under heavy traffic. 2 p. 2. Centrifugal pumps for railway water service Use. 2 p. 3. Tar bound, crushed stone crossings supersede plank. By John Stanley Crandell. 2 p. 4. How membrane waterproofing is laid. By A. S. Harrison. 3½ p.
- Vol. 18. No. 5. May, 1922. 1. Field for labor saving devices large. By Robert H. Ford. 3½ p.  
2. Are many creosoted timber structures destroyed by fire? 3 p.

### Railway Review

- Vol. 70. No. 1. Jan. 7, 1922. 1. New export coal carrying equipment for C. & O. Ry. 3½ p.  
2. Report on the Philadelphia & Reading collision. 4½ p.
- Vol. 70. No. 3. Jan. 21, 1922. 1. Community hospitals for disabled foreign freight cars. By J. J. Tatum. 3 p.
- Vol. 70. No. 5. Feb. 4, 1922. 1. The problems of the railroads. 5 p. 2. The foremost French railway electrification project. By G. de la Rochette. 5 p. 3. Welding frogs and crossings with manganese steel. By H. R. Pennington. 4 p.
- Vol. 70. No. 6. Feb. 11, 1922. 1. Harrison Street freight terminal of the Chicago & Alton R. R. in Chicago. 6 p. 2. Electrification of the Chilean state railways. 3½ p. 3. Should cost of treating ties be charged to maintenance or capital account. 2 p.
- Vol. 70. No. 7. Feb. 18, 1922. 1. Flood conditions encountered in Mexican rivers. 1½ p.
- Vol. 70. No. 8. Feb. 25, 1922. 1. Simplified system of car accounting saves large expense. By J. W. Fox. 7 p. 2. New Southern Pacific terminal building in San Francisco. 2 p.
- Vol. 70. No. 10. Mar. 11, 1922. 1. Twenty-third annual convention of the American Railway Engineering Association. 1 p. 2. New railway mail terminal in Chicago. 4½ p. 3. Automatic train control system of General Railway Signal Co. 7 p. 4. The Regan automatic train control systems. 6½ p.
- Vol. 70. No. 11. Mar. 18, 1922. 1. The railway engineering convention. 12 p. 2. Meeting of the Signal Section, A. R. A. 4 p.
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- Vol. 70. No. 16. Apr. 22, 1922. 1. Where electrification is both logical and picturesque. 5 p.  
2. Paint specifications—Why? By Philip L. Moury. 1½ p.

## Schweizerische Bauzeitung

Band LXXIX. Nr. 8. 25 Feb., 1922. 1. Zur Dimensionierung Von Druckleitungen-Fixpunkten. Von H. Hürzeler. 2p.

## Scientific American

January, 1922. 1. The hydraulic laboratory. (A prime aid in helping us to make the most of our water power resources) By S. G. Roberts. 2p. 2. Vehicular tunnel ventilation. (Tests in an old coal mine, with regular automobiles, under operating conditions). 1p. 3. The hydraulic Jump. (How nature's treatment of rapids and waterfalls is copied in Ohio's big impounding dam). 1½p. 4. Government railroad in Alaska nearing Completion. (Connecting seaward, at the head of Resurrection Bay, with Fairbanks by a 471-miles line). 2p. 5. New York's proposed belt railway. (Substituting direct rail connection for costly car-float and lighter transfer between rail, warehouse and dock). By William J. Wilgus. 2p

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## The Engineer

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## The Far Eastern Review

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## The Journal of the Institution of Municipal and County Engineers

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## The Military Engineering

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## The Railway Gazette

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- way of India. 4p. 3. Heavy train loads on the Canadian Pacific Railway. 1p.
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### The Railway Magazine

- Vol. L, No. 295. January, 1922. 1. The coast lines of the Glasgow and South Western Railway. By J. F. Gairns. 10p. 2. Train control on the North British Railway. 8p. 3. The highland railway under the grouping scheme. 4p. 4. Notable railway stations and their traffic. Princes Street, Edinburgh, Caledonian Railway. By J. Francis. 10p. 5. Motor road services of the Great North of Scotland Railway. 8p.
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### Water and Water Engineering

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