

新刊紹介

土木學會誌 第八卷第四號 大正十一年八月

新刊紹介
内外諸雜誌主要題目

- Bisacre, F. E. P.**—Applied calculus. 446 P., 5×7, illustrated, cloth. D. Van Nostrand Co., New York. Price: \$ 3.75 net.
- Capes, W. P.**—The modern city and its government. 269 P., 6×9, 15 organization charts, cloth. E. P. Dutton & Co., New York. Price: \$ 5.
- Dana, R. T.**—Concrete computation charts. 14 P., 9+12, 21 full page diagrams, flexible. The author 119 Broad St., New York. Price: \$ 5.
- Eggenschwyler, A.**—Über die Festigkeits berechnung von Schiebetoren und Ähnlichen Bauwerken 148 P., 6×10, paper. H. A. Ludwig Degener, Leipzig.
- Fassett, C. M.**—Assets of the ideal city. 177 P., 5×8, cloth. Thomas Y. Crowell Co., New York. Price: \$ 1.50 net.
- Frank, W.**—Statik der Baukonstruktionen. Mit 145 Abbildungen und 12 Zahlenbeispielen. Konrad Wittwer, Stuttgart 1922. Preis geh. M. 51.
- Gillespie, P.**—Investigation of the proportioning of concrete mixtures—1921. 13 P., 6×9, illustrated, paper.
- Gregor, A.**—Der praktische Eissenhochbau. Mit zahlreichen Textabbildungen, Tafeln und Tabellen Hermann Meusser, Berlin 1922. Preis: geb. 400 M + 200%.
- Higgins, A. L.**—The transition spiral and its introduction to railway curves, with field exercises in construction and alignment. 111 P., 5×7, cloth. D. Van Nostrand Co., Price: \$ 2.50.
- Lamotte, M.**—Cours de mécanique appliquée. Un volume in-8° (25×16) de 282 pages avec 214 figures, 1922. Gauthier-Villars et Cie, Paris. Prix: 25 fr.
- Liévin, A.**—Nouvelle méthode de calcul des grandes constructions continues. Un volume in-8° de 212 pages et 318 figures. Le Constructeur de Ciment armé, éditeur, 148, boulevard Magenta, Paris. Prix: 20 francs.
- McLean, W. H.**—City of Alexandria town planning scheme. 18 P., 8×14, maps and half one plates, Boards.
- Routin, G.**—Cours d'hydraulique industrielle, professé à l'institut polytechnique de Grenoble, Un volume in-8° de 292 page avec figures. Albin Michel, éditeur, Paris. Prix: 25 fr.
- Simons, F. T.**—Report on drainage and prevention of overflow in the valley of the Red River of the North. 89 P., 6×9, illustrated, paper. Bureau of Public Roads, Washington. Price: 50 c.
- Strassner, A.**—Tabellen für die Einflusslinien und die Momente des durchlaufenden Rahmens. Mit zehn Textabbildungen. Wilhelm Ernest & Sohn, Berlin 1922, Preis: geh. M 30.
- Wegmann, E.**—The design and construction of dams. Seventh edition enlarged and revised. 555 P., 9×12, illustrated, cloth. John Wiley & Sons, New York. Price: \$ 10.
- American Good Road Congress, 1922.**—273 P., 6×9, illustrated, cloth. American Road Builders' Association, New York. Price: \$ 3.
- American Railway Bridge and Building Association: Proceedings, 1921.**—246 P., 6×9, illustrated, cloth. Secretary C. A. Lichty (C. & N. W. Ky.), Chicago. Price \$ 1.
- City Plan for East Orange, N. J.**—80 P., 8×11, 4 maps, paper.
- Concrete-alkali investigations in Minnesota, 1919-20.**—By the Minnesota Department of Drainage and Waters in Co-operation with the U. S. Bureau of Public Roads. 74 P., 6×9, folding map, diagrams and half tones, many tables, paper.
- Hydraulic calculators for the solution of flow of water problems in canals, flumes, culverts, pipe lines, etc.**—Devised and for sale by J. R. John, M. S., Irrigation engineer, Berkeley, Cal. Diagrams mounted on one piece of 8×12-in. stiff card-boards, accompanied by flexible transparent straight edge and 8-p. pamphlet of directions for use. Price: \$ 5.

Standard Specification for steel railway bridges.—Canadian Engineering Standards Association, Ottawa, Ont. 78 P., 6×9, illustrated, stiff paper. Price: 25 c.

The Engineering index, 1921.—581 P., 6×9, cloth. The American Society of Mechanical Engineers, New York City. Price: \$ 6.

内 外 諸 雜 誌 主 要 題 目

工 學

第九卷 第六號 (第九十八號) 大正十一年六月十日. 1. 日川砂防工事 (二) 蒲学 4頁. 2. 杭及基礎杭 金森誠之 7頁.

第九卷 第七號 (第九十九號) 大正十一年七月十日. 1. 杭及基礎杭 金森誠之 6頁. 2. 日川砂防工事 (三) 蒲学 7頁. 4. 朝鮮に於ける都市計畫の一例 上田政義 16頁.

第九卷 第八號 (第一百號) 大正十一年八月十日. 1. 杭及基礎杭 金森誠之 6頁. 2. 朝鮮に於ける都市計畫の一例 (二) 上田政義 12頁.

工 業 雜 誌

第五十七卷 第七百二十七號 大正十一年七月五日. 1. 丹那隧道西口瓦斯試驗報告 吉田謹平 7頁

第五十七卷 第七百二十八號 大正十一年七月二十日. 1. ベルトン水車 (七) 中原淳藏 5頁.

第五十七卷 第七百二十九號 大正十一年八月五日. 1. 振りを受ける圓柱體材料が破壊に至るまでの剪斷内力に就て 近江廣治 7頁.

帝 國 鐵 道 協 會 會 報

第二十三卷 第四號 大正十一年七月十五日. 1. 勞働問題に就て 犬塚勝太郎 8頁. 2. 東京の地下鐵道に就て 八田嘉明 19頁.

Annales des Travaux Publics de Belgique

Tome XXIII.—1^{er} Fascicule. Février, 1922. 1. Essai sur les remorques maxima des locomotives à marchandises. Par M. Creplet. 20 p. 2. Trente années d'observations hydrométriques sur la Meuse mitoyenne. Par M. A. Bijls 8 p. 3. Le calcul des colonnes (suite). Par L. Lemaire. 23 p.

Beton u. Eisen

XXI. Jahrgang.—Heft I. 5. Januar 1922. 1. Trägerlose Decken im Lagerhaus für den Freihafen in Malmö. Von David Anderson. 3 p. 2. Eisenbetonbehälter für warme und heisse Flüssigkeiten mit saurehaltiger Behälterfüllung. Von R. Kohnke. 2½ p. 3. Eisenbetonschornstein nach Bauweise Mixeston. Von Louis Perrin. 2 p. 4. Schubversuche mit Voutenbalken. Von F. Mörsch. 5 p. 5. Der Einfluss des Schwindens auf einseitig bewehrte Eisenbetonbalken. Von F. Schüle. 2½ p. 6. Berechnung von Pfahlrosten. Von A. Ostefeld. 1½ p.

XXI. Jahrgang.—Heft II. 23. Januar 1923. 1. Die Maschinenhalle der elektrischen Zentrale im Eisenwerk Kladno der Prager Eisenindustrie-Gesellschaft. Von J. Melan. 2 p. 2. Die Verbindung des Krienbaches, Luzern. Von M. Schnyder. 2 p. 3. Berechnung von Pfahlrosten. Von A. Ostefeld. 3½ p. 4. Der elastische Pol und seine Anwendung bei der Untersuchung statisch unbestimmter Tragwerke. Von Doeinck. 2½ p.

- XXI. Jahrgang.—Heft III.** 10. Februar 1922. 1. Der elastische Pol und seine Anwendung bei der Untersuchung statisch unbestimmter Tragwerke. Von Doeinck. 2½ p.
- XXI. Jahrgang.—Heft IV.** 23. Februar 1922. 1. Die Brücke über den Connecticutfluss bei Springfield (Mass.). Von C. M. Spefford. 1½ p. 2. Eisenbetonbehälter für warme und heisse Flüssigkeiten mit säurehaltiger Behälterfüllung. Von R. Kohnke. 2½ p. 3. Verfahren zur Ermittlung von Einflusslinien der Biegemomente durchlaufender Träger. Von H. Kayser. 4½ p. 4. Bemessungsverfahren für T-förmigen Querschnitt. Von Franz Kardos. 2½ p. 5. Die Druckverteilung auf die einzelnen Träger der Betonbrücken. Von Maximilian Thullie. 2½ p.
- XXI. Jahrgang.—Heft V.** 18. März 1922. 1. Versuche über die Einwirkung von niedrigen Temperaturen auf das Erhärten des Zements. Von H. Kreüger. 4½ p. 2. Die schalungslose Verbundbauweise "Nast." Von Paul Frei. 3 p.
- XXI. Jahrgang.—Heft VI.** 5. April 1922. 1. Die Betonrahmenbauweise. Von Heinrich Goldemund. 1½ p. 2. Ein Rückblick auf die Entwicklung des Baues weitgespannter Massivbrücken. Von Theodor Gesteschi. 2 p. 3. Warmespannungen in Eisenbetonbehältern. Von B. Löser. 3½ p.
- XXI. Jahrgang.—Heft VII.** 24. April 1922. 1. Ein Rückblick auf die Entwicklung des Baues weitgespannter Massivbrücken. Von Theodor Gesteschi. 5 p. 3. Neue Bauauführungen in Eisenbeton bei der E. G. D. Stuttgart. Von Schnechterle. 2 p.
- XXI. Jahrgang.—Heft VIII.** 9. Mai 1922. 1. Eisenbeton als Baustoff bei Druckluftgründungen. Von Joachim Schultze. 3½ p. 2. Verfahren zur augenärtherten statischen Berechnung biege-fester rechteckiger Platten. Von Ludwig Hotopp. 3 p.

Canadian Engineer

- Vol. 42. No. 21.** May 23, 1922. 1. High level concrete bridge, Elorn, Ont. By A. W. Connor. 1½ p. 2. Treatment of hard, impure water with aluminium sulphate. By William Gore. 2 p. 3. Prevention of sewage contamination in Ontario. By F. A. Dallyn. 3 p. 4. Pumping plants for land drainage. By L. C. Craig. 2½ p.
- Vol. 42. No. 22.** May 30, 1922. 1. Substructure of Edmundston-Madawaska Bridge. By G. McN. Steeves. 4 p. 2. Topographical survey of London, Ont. By Douglas H. Nelles. 2 p. 3. Fire prevention and protection in municipalities. By Frank C. Jordnn. 2½ p. 4. Analysis of present highway traffic. By John H. Mullen. 2½ p.
- Vol. 42. No. 23.** June 6, 1922. 1. Substructure, Johnson St. bridge, Victoria, B. C. By F. W. Allwood. 3 p. 2. Highway traffic census. By J. Gordon Mc Kay. 2½ p. 3. Safety and beauty in the layout and design of highways. By A. R. Hirst. 3½ p. 4. Problems in sewer design and maintenance. By Milton J. Ruark. 2 p. 5. Plant inspection to insure good bituminous pavements. By Francis P. Smith. 3 p.
- Vol. 42. No. 24.** June 13, 1922. 1. Pumping and filter plant at Sturgeon Falls, Ont. 2 p. 2. Discussion on paper "prevention of sewage contamination in Ontario" 1½ p. 3. Co-operative road improvement and future policies. By Thos. H. Mac Donald. 3 p. 4. Water supply in its relation to sewage disposal. By J. Clark Keith. 1½ p.
- Vol. 42. No. 25.** June 20, 1922. 1. Engineering profession act, province of Ontario 5 p. 2. Hydraulic turbines. By Lewis F. Moody. 3 p. 3. Portland cement concrete roads. By James Allen. 2 p. 4. Controlling quality of materials in highway construction. By John H. Bateman. 3½ p.

Concrete and Constructional Engineering

- Vol. XVII. No. 4.** April, 1922. 1. Coast preservation in British Guiana. By Herbert L. Vahéy. 8 p. 2. Problems in the theory of construction.—Some problems in deflection of beams. By Ewart S. Andrews. 9 p. 3. Reinforced concrete sewers in America. By E. R. Mathews. 10 p.
- Vol. XVII. No. 5.** May, 1922. 1. Reinforced concrete gasworks plant. By B. N. Dey. 11 p. 2. Concrete in bridge substructures. 6 p.
- Vol. XVII. No. 6.** June, 1922. 1. The tallest reinforced concrete building in the United States. By A. E. Wynn. 7 p. 2. Concrete at Greenbank gasworks, Blackburn. 7 p. 3. Reinforced concrete sewers in America. By E. R. Mathews. 6 p. 4. New reinforced concrete viaduct and bridges at Dover. 8 p.

Der Eisenbau

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13. Jahrgang. Nr. 4. 21. April 1922. 1. Erweiterung der Clapeyronschen Gleichung. Von Edgar Schmidt. 6 p. 2. Das Verhalten mechanisch beanspruchter Metalle. Von E. Honegger. 12½ p. 3. Gerüstlose Brückenauswechslung in Zweigleisiger Strecke. Von Leopold Herka. 3 p.
13. Jahrgang. Nr. 5. 16. Mai 1922. 1. Das Verhalten mechanisch beanspruchter Metalle. Von E. Honegger. 5 p. 2. Auf Knickung beanspruchte Gitterstäbe. Von Karl Ijungberg. 5 p. 3. Eiserner Übergangsteg im Grenzbahnhofs Teschen a. E. Von Leopold Herzka. 4½ p. 4. Zur Bemessung genieteter Vollwandträger. Von Siegmund Sonwätzer. 5 p.
13. Jahrgang. Nr. 6. 20. Juni 1922. 1. Die Beanspruchung einer dünnen Zylinderwand bei Berücksichtigung der Formänderung. Von Josef Krebitz. 5 p. 2. Einige Aufgaben über die Knickfestigkeit elastischer Stabverbindungen. Von Friedrich Bleich. 5½ p. 3. Freitragende Fachwerkbinder in Holz. 9½ p.

Electric Railway Journal

- Vol. 59. No. 14. April 8, 1922. 1. Track and wiring on large bridge. 4½ p.
- Vol. 59. No. 15. April 15, 1922. 1. Milwaukee's powdered coal station. 8 p.
- Vol. 59. No. 17. April 29, 1922. 1. Controlling excavations through right-of-way. By R. B. Genest. 4½ p. 2. Electric railway bridge built in eleven hours. 2 p.
- Vol. 59. No. 18. May 6, 1922. 1. Transportation developments in Atlanta. 6 p.
- Vol. 59. No. 19. May 13, 1922. 1. Measuring the service in Memphis. 4 p. 2. The Baltimore plan of parking regulation. By John E. Cullen. 4 p. 3. Improvement in turnstile cars. 2 p.
- Vol. 59. No. 20. May 20, 1922. 1. Crane car solve snow-removal problem. 3 p. 2. A practical example in track replacement. By Samuel Striezhoff. 1½ p.
- Vol. 59. No. 21. May 27, 1922. 1. Quebec's railways and their power supply. 3 p.
- Vol. 59. No. 23. June 10, 1922. 1. France making real progress in electrification. By Paul Charpentier and Earl M. Bill. 3 p. 2. Saving energy on the Long Island. By L. S. Wells. 3½ p.

Engineering

- Vol. CXIII. No. 2938. Apr. 21, 1922. 1. Statically indeterminate and non-articulated structures. By Prof. F. C. Lea. 1 p.
- Vol. CXIII. No. 2939. Apr. 28, 1922. 1. The repair of the New York-Brooklyn submarine water main. 2 p. 2. The building trades exhibition at Olympia. ("Aero" concrete mixers). 3½ p.
- Vol. CXIII. No. 2940. May 5, 1922. 1. Developments in the use of paraffin for coast lighting. 3 p. 2. The International Railway Congress at Rome. 4 p.
- Vol. CXIII. No. 2941. May 12, 1922. 1. The International Railway Congress at Rome. 3 p.
- Vol. CXIII. No. 2942. May 19, 1922. 1. Nozzle losses in compound turbines. 1 p. 2. The International Railway Congress at Rome. 4 p. 3. New London service reservoirs. 3 p. 4. X-ray studies on the crystal structure of steel. By Dr. Arne Westgren and Gösta Phragmén. 8 p.
- Vol. CXIII. No. 2943. May 26, 1922. 1. The International Railway Congress at Rome. 5 p. 2. New London service reservoirs. 5 p.
- Vol. CXIII. No. 2944. June 2, 1922. 1. The efficiency of the hammer blow, and its effects with reference to piling. By A. Hiley. 1½ p.
- Vol. CXIII. No. 2945. June 9, 1922. 1. The efficiency of the hammer blow, and its effects with reference to piling. By A. Hiley. 3 p. 2. The Institution of Electrical Engineers. 2½ p. 3. Some special cases of two-dimensional stress or strain. By C. E. Inglis. 2 p.

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- Vol. CXIII No. 2946. June 16, 1922. 1. The deterioration of materials used in harbour construction. 2 p. 2. The efficiency of the hammer blow, and its effects with reference to piling. By A. Hiley. 1 p. 3. Recent photo-elastic researches on engineering problems. 1½ p.

Engineering News-Record

- Vol. 88 No. 14. Apr. 6, 1922. 1. Placing 410,000 cu. yd. of concrete on Ontario's Niagara power development-I. By A. C. D. Blanchard & R. B. Young. 6 p. 2. Putting business methods into state highway management. 4 p. 3. Elimination of odor in sewage gases by burning. By C. E. Leonard. 2 p. 4. Chicago double-deck drawbridge with elevated railway. 4½ p. 5. Specification details of Hudson River vehicle tunnel. 1 p.
- Vol. 88. No. 15. Apr. 13, 1922. 1. Modern practice in driving Western hard-rock tunnels. By R. C. Starr. 4 p. 2. Building roads on gumbo fills in the Arkansas bottoms. By Charles T. Fisher. 3 p. 3. Broad problems analyzed in design of Winnipeg bridge. By J. F. Greene 3½ p. 4. Placing 410,000 cu. yd. of concrete on Ontario's Niagara power development—II. By A. C. D. Blanchard and R. B. Young. 3 p. 5. Design of sand box for Kern River hydro-electric plant. By H. L. Doolittle. 2 p.
- Vol. 88. No. 16. Apr. 20, 1922. 1. Thrust of skew barrel arch measured on laboratory model. By Clyde T. Morris. 3 p. 2. Following the great wall of China. By J. A. L. Waddell. 3 p. 3. Water seepage along fault planes causes serious clay slide. By Robbert W. Jones. 2 p.
- Vol. 88. No. 17. Apr. 27, 1922. 1. Driving a 32-ft. hydraulic pressure tunnel around the American Niagara. 5 p. 2. A proposed uniform law for land reclamation by drainage. By Jacob A. Harman. 7 p.
- Vol. 88. No. 18. May 4, 1922. 1. What is a day's work laying concrete pavement? By H. K. Davis. 4 p. 2. Stanford stadium built of timber on earth fill. By E. E. Carpenter. 2½ p. 3. Design and Construction of light-weight floor systems. By Jacob Fruchtbaum. 5 p. 4. Two-hinged timber arch used as temporary railroad bridge. By W. J. H. F. Fogelstrom. 2 p. 5. The Colorado River; Its control and development. 3½ p.
- Vol. 88. No. 19. May 11, 1922. 1. Mechanical equipment for Detroit water main extension. 3½ p. 2. Flood-control dam replenishes underground water source. 1½ p. 3. Central repair shop for Philadelphia water-works. By John M. Brogini. 2 p. 4. Operation and turning up of the Cleveland filters. By J. W. Ellms. 3½ p. 5. Making 30-inch flexible joint cast-iron pipe. By William G. Hammerstrom. 2 p. 6. Operation control panels for the Sacramento filters. 2 p. 7. Submerged intake for 24 in. pipe placed without diver. By George W. Pracy. 2 p.
- Vol. 88. No. 20. May 13, 1922. 1. Fighting floods on the Mississippi above Vicksburg. By W. W. De Berard. 6 p. 2. Hydraulic-fill dams safe to construct. 1 p. 3. Load tests of piers for Chicago New Union Station. 2½ p. 4. Analysis of Connecticut's traffic census data yields facts on truck overloading. By J. Gordon McKay. 4½ p. 5. Alumina cement; Its development use and manufacture. By Henry S. Spackman. 3 p.
- Vol. 88. No. 21. May 25, 1922. 1. Design, construction and use of metal flumes. By Julian Hinds. 7 p. 2. Flood water conditions on the Lower Mississippi. By W. W. De Berard. 2 p. 3. Home treatment of lumber for mill roof with creosote. By William E. Rudolph. 2½ p.
- Vol. 88. No. 22. June 1, 1922. 1. Novel construction features on 279-ft. Don Pedro Dam. By R. McC. Beanfield. 5 p. 2. Tacoma builds semi-circular conduit of gunite. 3 p. 3. Caisson cofferdam foundation with special bracing. By T. Kennard Thomson. 4 p.
- Vol. 88. No. 23. June 8, 1922. 1. Large steel arch bridge ribs encased in gunite. By C. B. McCullough. 4 p. 2. Fighting the Mississippi flood at Oldtown, Arkansas. By L. R. Parmelee. 2½ p. 3. Grade reduction increases train loads on coal road. 2 p. 4. Preventing loss of power due to high backwater. By J. A. Simit. 2 p.
- Vol. 88. No. 24. June 15, 1922. 1. Design features of Lincoln highway "Ideal section." By W. G. Thompson. 4½ p. 2. Battling with the "Devil's Hole" in the Mississippi flood. By A. L. Dabney. 4½ p. 3. Field check on formulas for earth pressure. By H. S. Schick. 2 p.
- Vol. 88. No. 25. June 22, 1922. 1. Exploratory boring needed as guide to design and construction of public works. By James F. Sanborn. 4 p. 2. Heavy steelwork in new theater and office building. 5½ p. 3. Power and irrigation development in Palestine. 4½ p.
- Vol. 88. No. 26. June 29, 1922. 1. Results of heavy traffic on Pittsburg test road. 3½ p. 2. Hydraulic design of bridge waterways. By Ivan E. Houk. 4½ p. 3. Power company makes

extensive triangulation survey. By W. Mussetter. 3 p. 4. Pennsylvania R. R. will extent lines to Detroit. 2 p. 5. Aggregate strength no measure of concrete strength. By F. E. Giesecke. 1½ p.

Engineering World

- Vol. 20. No. 4. April, 1922. 1. Electrification of the Swiss railway's Gothard line. By F. Dassenbach. 3 p. 2. Concrete docks defy terebo. 2 p. 3. Great Western Power Co.'s 165,000-volt transmission line. By W. A. Scott. 2 p. 4. Building code problems of Des Moines, Iowa. By Paul E. Wylie. 4 p.
- Vol. 20. No. 5. May 1922. 1. New filtration plant for Detroit largest in the World. 3 p. 2. Chicago City planning. By Clarence W. Farrier. 4½ p. 3. Construction work by Merced Irrigation District. 1½ p. 4. Concrete used in larger highway bridges. 2 p. 5. Standards for testing welds. 4 p. 6. Colloids and sewage disposal. By F. W. Mohlman and Langdon Pearse. 2½ p. 7. Use and care of manila rope. By Fred A. Jenks. 3 p. 8. Crankcase oil dilution problem and its solution. By William F. Parish. 8 p.
- Vol. 20. No. 6. June, 1922. 1. Drainage system supplemented by high capacity pumping plant. By W. A. Scott. 5 p. 2. The new swimming pool vs. the old swimming hole. 2 p. 3. Fireproof qualities of pressed steel construction. By A. H. Bromley. 2 p. 4. Design of the Miami conservancy spillway bridges. 5 p.

Engineers and Engineering

- April, 1922. 1. Engineering in civilization. By John E. Zimmermann. 5½ p. 2. City paving conference. 12 p.
- May, 1922. 1. City paving conference. 10 p.

Journal of the New England Water Works Association

- Vol. XXXVI. No. 1. March, 1922. 1. Making chlorine at the point of consumption. By Clarence W. Marsh. 13 p. 2. Pollution of streams affecting industrial uses. By J. Frederick Jackson. 18 p. 3. A rating of qualities of the water supplies of Massachusetts. By George C. Whipple. 39 p. 4. The economy of high initial cost and extreme care in service-pipe installation. By Reeves J. Newsom. 7 p. 5. Monel metal and its suitability for water-works use. By H. S. Arnold. 9 p. 6. Reinforced concrete pipe as applied to water-supply lines. By W. G. Chace. 9 p.
- Vol. XXXVI. No. 2. June, 1922. 1. A history of the corrosion of the 36-inch steel force main at Akron, Ohio. By G. Gale Iixon. 13 p. 2. Investigation of electrolysis on steel force main at Akron, Ohio. By Victor B. Phillips. 19 p. 3. Proposed extension of the metropolitan water district. By X. H. Goodnough. 73 p. 4. Electrification gate valves. By Payne Dean. 9 p. 5. Some observations on water consumption. By Charles W. Sherman. 6 p. 6. The design and construction of the Gloversville standpipe. By Frank A. Marston. 19 p. with 2 plates.

Journal of the Western Society of Engineers

- Vol. XXVII. No. 4. April, 1922. 1. Building failures. By Theodore L. Condon. 32 p.
- Vol. XXVII. No. 6. June, 1922. 1. Electric motor drive in the steel industry. By Gordon Fox. 24 p.

Le génie Civil

- Tome LXXX, No. 14. 8 Avril, 1922. 1. Calcul général des pièces à deux appuis à encastrement partiel. Par Louis Gellussem. 3½ p. 2. Caissons en béton armé, pour fondations à l'air comprimé. Par Eugenio Ribera. 1½ p.

- Tome LXXX. No. 15.** 15 Avril, 1922. 1. Calcul général des pièces à deux appuis à encastrement partiel. Par Louis Gellusseau. 4 p. 2. Essais de dalles en aggloméré de ciment pour trottoirs. Par A. Grebel. 2½ p.
- Tome LXXX. No. 16.** 22 Avril, 1922. 1. Calcul général des pièces a deux appuis à encastrement partiel. Par Louis Gellusseau. 3 p. 2. Les ruptures accidentelles des rails. 2 p.
- Tome LXXX. No. 17.** 29 Avril, 1922. 1. Les nouveaux Imminoirs de l'Interstate Iron and Steel Co, à Chicago (E.-U.). Par F. Couleru. 2 p. 2. Calcul général des pièces à deux appuis à encastrement partiel. Applications aux fermes et aux arcs (suite). Par Louis Gellusseau. 3½ p.
- Tome LXXX. No. 18.** 6 Mai, 1922. 1. Usine hydro-électrique de Fully (Valais, Suisse), utilisant une chute de 1650 mètres. Par Ch. Dantin. 4 p. 2. Calcul général des pièces à deux appuis à encastrement partiel. Applications aux fermes et aux arcs (suite) Par Louis Gellusseau. 2½ p. 3. A propos de l'accident du chemin de fer de Versailles, le 8 mai 1842. Par Ch. Fremont. 1½ p.
- Tome LXXX. No. 19.** 13 Mai, 1922. 1. Usine hydro-électrique de Fully (Valais, Suisse), utilisant une chute de 1650 mètres. 4 p. with 1 plate. 2. Critiques des theories de la relativité. Celle d'Einstein n'est pas une théorie physique. Par P. Juppont. 3½ p.
- Tome LXXX. No. 20.** 20 Mai, 1922. 1. La coupole-décor Fortuny du Théâtre de la Scala, à Milan. 3 p. 2. Critiques des theories de la relativité. Celle d'Einstein n'est pas une théorie physique. Par P. Juppont. 3 p.
- Tome LXXX. No. 21.** 27 Mai, 1922. 1. Les nouveaux hangars à avions du port aérien du Bourget, près Paris Par Ch. Dantin. 3½ p. 2. Critiques des théories de la relativité. Celle d'Einstein n'est pas une théorie physique. Par P. Juppont. 5 p. 3. Pelle mécanique rotative, système Clère, pour les travaux de manutention et de terrassement. Par E. Weiss. 3 p.
- Tome LXXX. No. 22.** 3 Juin, 1922. 1. Dock flottant en béton armé, de 2000 tonnes, du port de Trieste, 2½ p. 2. Le calcul des poutres à diagonales croisées. Par L. Descans. 4 p.

Organ für die Fortschritte des Eisenbahnwesen

- 77. Jahrgang. Heft 6.** 15. März, 1922. 1. Berechnungen am Oberbaue unter bewegten Lasten bei Berücksichtigung der Dämpfung der Schwingungen. Von H. Saller. 5 p. 2. Die verkürzte Kreuzungsweiche. Von Bäseler. 1½ p.
- 77. Jahrgang. Heft 7.** 1. April, 1922. 1. Besutigung von Rutschungen auf der Neubaustrecke Annaberg—Deutsch Krawarn. Von A. Lieffers. 5 p.

Public Works

- Vol. 52. No. 12.** Mar. 25, 1922. 1. Gilboa Dam construction. 3 p. 2. Sludge reduction at the Baltimore sewage treatment plant. By C. E. Keefer. 1½ p.
- Vol. 52. No. 14.** Apr. 8, 1922. 1. Engineers' plans for state health boards. 2 p. 2. Dredge work on Illinois ditches. 1½ p. 3. Plant for separate sludge digestion. By George L. Robinson. 1½ p.
- Vol. 52. No. 15.** Apr. 15, 1922. 1. Construction of Franklin highway. By E. H. Sauerman. 4½ p. 2. Heavy loads on highways. 1½ p. 3. Recent changes in pavement design. 3 p. 4. Maintenance of roads. (Tables). 9 p.
- Vol. 52. No. 16.** Apr. 22, 1922. 1. North Avenue viaduct, Milwaukee. 3½ p.
- Vol. 52. No. 18.** May 6, 1922. 1. Constructing Prairie du Sac highway bridge. 2 p. 2. Gilboa Dam construction. 2½ p.
- Vol. 52. No. 19.** May 13, 1922. 1. Birmingham's water works system. By N. M. Berberich and W. A. Hardenbergh. 4 p. 2. Decatur's new water works dam. By E. E. Pierson. 3 p. 3. Filter plant control and operation. 3 p.
- Vol. 52. No. 20.** May 20, 1922. 1. Springfield- West Springfield bridge. 3 p. 2. Garbage collection in Goldsboro. 2 p.
- Vol. 52. No. 21.** May 27, 1922. 1. American Water Works convention. 2 p. 2. State highway maintenance in Massachusetts. 2½ p. 3. Springfield- West Springfield bridge. 1½ p.

4. Improved financial condition of water works. By Leonard Metcalf. 3½ p.
- Vol. 52. No. 22. June 4, 1922. 1. Pine Hill Dam. 3 p. 2. Miles acid process. 3 p. 3. Use of tar in road construction. 2 p. 4. American Water Works convention. 1½ p. 5. How to handle concrete piles 80 feet long. 2 p. 6. Methods of paying for paving. 3 p.
- Vol. 52. No. 23. June 10, 1922. 1. Piers and abutments of the Springfield bridge. 3 p. 2. The Illinois road tests. 2½ p. 3. Water Works convention. 3 p.

Railway age

- Vol. 72. No. 17. April 23, 1922. 1. Electric freight locomotives for Chile. 2 p. 2. Simplified analysis of the railroad problem. By Harrington Emerson. 3½ p.
- Vol. 72. No. 18. May 6, 1922. 1. A new timber treating plant at Minneapolis. 3 p.
- Vol. 72. No. 19. May 13, 1922. 1. Rebuilding of Galveston causeway nearly complete. 4 p.
- Vol. 72. No. 20. May 20, 1922. 1. Rome congress adopts interesting conclusions. By Samuel O. Dunn. 5 p. 2. New cantilever bridge replaces famous old span. 1½ p. 3. A new plan for unified terminals at Chicago. 2½ p.
- Vol. 72. No. 22. June 3, 1922. 1. Converting a tunnel into an open cut on a busy line. By W. S. McFetridge. 3 p.
- Vol. 72. No. 23. June 10, 1922. 1. A mountain type locomotive for high capacity. 4½ p. 2. Shifting of bridge pier stopped after 35 years. By M. F. Clements. 3 p.
- Vol. 72. No. 24. June 17, 1922. 1. New Haven builds freight yards at providence. 3 p.
- Vol. 72. No. 25. June 24, 1922. 1. Pennsylvania to complete entrance into Detroit. 2 p.

Railway Maintenance Engineer

- Vol. 18. No. 6. June, 1922. 1. Safeguarding bridges during floods. By Edwin M. Grime. 1½ p. 2. An interesting turntable renewal. By E. B. Fithian. 1½ p.

Railway Review

- Vol. 70. No. 17. Apr. 29, 1922. 1. Is train control more desirable than signals? By George P. Finnigan. 3 p. 2. Why paint specifications present a difficult problem. By F. P. Ingalls. 4 p. 3. Administration of Chinese Government Railways. 5 p.
- Vol. 70. No. 18. May 6, 1922. 1. Erection of Hurricane Gulch arch bridge on Alaska Government Railway 2 p.
- Vol. 70. No. 19. May 13, 1922. 1. Methods employed in appraisal and valuation of buildings. By Theodore F. Laist. 6 p.
- Vol. 70. No. 20. May 20, 1922. 1. Modern English coal and ash handling plants. 2½ p.
- Vol. 70. No. 21. May 27, 1922. 1. Some recent developments in gasoline motor rail cars. By W. L. Bean. 6½ p.
- Vol. 70. No. 23. June 10, 1922. 1. Locomotive section. 14 p. 2. Car section. 23 p. 3. Shop section. 12 p.
- Vol. 70. No. 24. June 17, 1922. 1. Shop section. 8 p. 2. Locomotive section. 16 p. 3. Car section. 8 p.

Schweizerische Bauzeitung

- Band LXXX. Nr. 11. 18. März 1922. 1. Die Pfeilerbewegungen der Eisenbahnbrücke über den Rhein bei Eglisau und die Massnahmen zur Sicherung des Bauwerks. Von E. Münster. 5 p.

- Band LXXIX. Nr. 12. 25 März 1922. 1. Beitrag zur Berechnung von Hochwasserüberläufen bei Talsperren. Von Otto Sommer. 3½ p. 2. Wettbewerb. für eine Seebadanstalt in Rorschach. 3½ p.
- Band LXXIX. Nr. 13. 1. April 1922. 1. Die projektierten Silsersee-Bergeller Kraftwerke. Von Adolf Salis. 4 p.
- Band LXXIX. Nr. 14. 8. April 1922. 1. Der Abschluss der Elektrifizierungsarbeiten der Rhätischen Bahn. Von W. Dürler. 4 p.
- Band LXXIX. Nr. 17. 29. April 1922. 1. Graphikon für die Berechnung von Plattenbalken und deren wirtschaftliche Bemessung bei reiner Biegung. Von W. Kindler. 4½ p.
- Band LXXIX. Nr. 18. 6. Mai 1922. 1. Das Lehrgerüst für die Teberbrücke Ponte San Giovanni. Von Th. Backmann. 6½ p.
- Band LXXIX. Nr. 20. 20. Mai 1922. 1. Der Abschluss der Elektrifizierungsarbeiten der Rhätischen Bahn. Von W. Dürler. 6 p.
- Band LXXIX. Nr. 21. 27. Mai 1922. 1. Beiträge zur Berechnung von Eisenbeton Querschnitten auf einheitlicher tabellarischer Grundlage. Von P. Pasternak. 5 p. 2. Der Abschluss der Elektrifizierungsarbeiten der Rhätischen Bahn. Von W. Dürler. 2½ p.
- Band LXXIX. Nr. 22. 3. Juni 1922. 1. Die Lösung der Rheinfrage. 3½ p. 2. Der Abschluss der Elektrifizierungsarbeiten der Rhätischen Bahn. Von W. Dürler. 2½ p.
- Band LXXIX. Nr. 23. 10. Juni 1922. 1. Die Hochspannungs-Leitung der Bernischen Kraftwerke über die Gemmi. 1½ p. 2. Die Eisenbeton-Arbeiten bei der Zentrale in Bruok a. d. Mur. Von Theodor Güdel. 1½ p.

The Dock & Harbour Authority

- Vol. II. No. 15. January, 1922. 1. The commercial Development of the port of Rotterdam. By D. Boomsma. 6 p. with 1 plate. 2. Pneumatic grain elevator and sack handling plant at the port of Bordeaux. 3½ p. 3. The machinery of floating docks. By E. H. Salmon. 6 p. 4. Rangoon: The town, the river and the port, and the new dock scheme at Dawbon. 4 p. 5. Electrical quay cranes. By Claude W. Hill. 3 p. 6. Pier designs as derived from quay designs. 3 p.
- Vol. II. No. 16. February, 1922. 1. The proposed harbour of refuge at St. Ives, Cornwall. By E. C. Uren. 3 p. with 1 plate. 2. The Commercial development of the port of Rotterdam. By D. Boomsma. 6 p. 3. Rangoon port development. 3 p. 4. The machinery of floating docks. 5 p. 5. The possibilities of Detroit as a world port. By Captain William H. Adams. 4½ p.
- Vol. II. No. 17. March, 1922. 1. Improvement works at the port of Nantes and in the deep water portion of the Loire. By A. Kauffmann. 4½ p. with 1 plate. 2. Harbour extension works at Casablanca, Morocco. 7 p. 3. Discharge of grain cargoes in the port of London by pneumatic elevators. By R. E. Knight. 4½ p. 4. A criticism of the new development scheme for the port of Rangoon. By Sir George C. Buchanan. 4 p. 5. Petrograd Harbour. 4 p.
- Vol. II. No. 18. April, 1922. 1. The port of Glasgow and its development under the trustees of the Clyde navigation. By T. R. Mackenzie 6½ p. with 1 plate. 2. Multiple type hopper dredger "Seetief." 3 p. 3. Conveying and elevating machinery. By Gardiner Mitchell. 6 p. 4. Petrograd Harbour. 2 p. 5. The port of Blyth. By C. E. Baldwin. 4 p.
- Vol. II. No. 19. May, 1922. 1. Seattle: The great modern port on the Pacific. By G. F. Nicholson. 6½ p. with 1 plate. 2. Mechanical cargo handling. By G. H. Roe. 6 p. 3. The port of Harwich and Farkleston quay. 4½ p. 4. National port problems in the United States 5½ p.

The Engineer

- Vol. CXXXIII. No. 3456. Mar. 24, 1922. 1. The formal opening of Waterloo station 1 p.
- Vol. CXXXIII. No. 3459. Apr. 14, 1922. 1. Great Northern Railway—Pacific type passenger engine. 1 p.
- Vol. CXXXIII. No. 3460. Apr. 21, 1922. 1. New type of concrete truss bridge. 2 p.

- Vol. CXXXIII. No. 3462. May 5, 1922. 1. An account of some experiments on the action of cutting tools. By Prof. E. G. Coker and K. C. Chakko. 2½ p.
- Vol. CXXXIII. No. 3463. May 12, 1922. 1. New sewage pumps at Richmond. 2 p.
- Vol. CXXXIII. No. 3464. May 19, 1922. 1. Long distance operation of facing points on railways.
- Vol. CXXXIII. No. 3465. May 26, 1922. 1. The Grampian hydro-electric scheme. 1 p.
- Vol. CXXXIII. No. 3466. June 2, 1922. 1. The flood problem in China. 3 p. 2. Marine surveys. By E. Latham and P. Harrison. 1½ p.
- Vol. CXXXIII. No. 3468. June 16, 1922. 1. The enlargement of Deptford Dock, Sunderland. 2 p. 2. Electric locomotives. By Vincent L. Raven. 3 p.
- Vol. CXXXIII. No. 3469. June 23, 1922. 1. Electric locomotives. By Vincent L. Raven. 3½ p.

The Highway Engineer and Contractor

- Vol. 6. No. 4. April, 1922. 1. Use of calcium chloride in concrete highway construction. By B. H. Piepmeier and H. F. Clemmer. 3 p. 2. Paved highway system of Joplin district. 3 p. 3. Vital facts on Portland cement. By John E. McEldowney. 4 p. 4. Protecting pavement edges. 1½ p. 5. Effect of speed on highways. By W. G. Robertson. 2 p.
- Vol. 6. No. 5. May, 1922. 1. Asphalt filler for brick and block pavements. By Chas. E. Murphay. 2 p. 2. Bates experimental road undergoing tests. 4 p. 3. Traffic lanes separated on blind turn in California. By R. M. Morton. 1 p. 4. Asphalt paving inspection. By W. Earl Weller. 2 p. 5. Use of explosives in road building. 4½ p.
- Vol. 6. No. 6. June, 1922. 1. Experimental highway work at Arlington to continue. 2 p. 2. Investigation of sulphide cement. By H. F. Clemmer. 1½ p. 3. Development in method of constructing brick pavements. By Arthur H. Blanchard. 3 p. 4. Tile under-drainage for Cleveland brick pavements. By Fred Williams. 2 p. 5. Distribution of wheel load on pavement sections. By H. F. Clemmer and C. A. Hogenthaler. 4½ p.

The Military Engineer

- Vol. XIV. No. 75. May-June, 1922. 1. The flood control works of the Miami conservancy district. By Chas. H. Paul. 6 p. 2. Bridging the Rhine in record time. By T. F. Farrell. 2 p. 3. Tilt of the earth in Great Lakes region. By Sherman Moore. 3 p.

The Railway Engineer

- Vol. XLIII. No. 508. May, 1922. 1. Reinforced concrete locomotive cooling and sanding plants. 1 p. 2. Railway turntables. 2½ p.
- Vol. XLIII. No. 509. June, 1922. 1. Modern locomotive engine design and construction. LXXX. 6 p. 2. Long-distance operation of facing points. 3 p. 3. Tunnels—XXX. 6 p.

Water and Water Engineering.

- Vol. XXIV. No. 281. May 20, 1922. 1. Modern pumping and hydraulic machinery. 2 p. 2. The modern hydraulic turbine. By J. Johnstone Taylor. 1 p. 3. Water cooling plants. 3 p. 4. Pipe friction and pump efficiency. By William Brazenall. 2½ p. 5. A low head hydro-electric development of 96,000 horse power. By W. Francis Lloyd. 2 p. 6. The miles acid process of sewage treatment. By F. W. Mohlman. 4½ p.
- Vol. XXIV. No. 282. June 20, 1922. 1. Chester waterworks: Past and present. By Frederick Starr and C. Wilfrid Bennett. 6½ p. 2. Reinforced concrete for water retaining structures. By H. C. Ritchie. 6½ p. 3. Water power in Finland. 2½ p. 4. Institution of water engineers. Annual general meeting. 7 p.