

- Sleight, R. B.—Evaporation from the surfaces of water and river-bed materials. (Reprinted from Journal of Agricultural Research. Vol. X, No. 5. Washington, D. C. July 30, 1917.) 52 P., illustrated, 7×10, paper.
- Sprague, E. H.—The strength of structural elements. 202 P., 112 illustrations, 7½×4½, Scott Greenwood and Son, London. Price 4s. net.
- Stiles, A. A.—Tables of velocity of water in open channels derived from Kutter's formula. Bulletin 6, Aug. 1917. Austin, Tex.: State Reclamation Department. 130 P., 6×9, paper.
- Bulletin of the Society for street cleaning and refuse disposal of the United States and Canada. The secretary, Jos. R. Buchanan, Municipal Building, New York City. 22 P., 6×9, paper.
- Snow removal in the city of Rochester, N. Y.—Report to Mayor by Rochester Bureau of Municipal Research, Inc. 44 P., 6×9, paper.
- Surface water supply of the United States. Washington, D. C.: U. S. Geological Survey. 6×9, illustrated, paper. No. 389: 1914. Part IX. Colorado River basin. 198 P., No. 390: 1914. Part X. The Great basin. 306 P., No. 403: 1915. Part III. Ohio River basin. 171 P., No. 408: 1915. Part VIII. Western Gulf of Mexico basin. 108 P., No. 438: 1916. Part VIII. Western Gulf of Mexico basin. 106 P., No. 404: 1915. Part IV. St. Lawrence River basin. 153 P.
- The water-works system of the City of Chicago. Report prepared by the Chicago Bureau of public efficiency. Chicago, Ill.: The Bureau, 315 Plymouth Court. 207 P., illustrated, 6×9, paper.

内外諸雜誌主要題目

工 學

第五卷 第二號(第四十六號) 大正七年二月十日.

1. 衛生工學ト衛生學. 4頁.
2. 鐵道線路隧道照査測量ノ實例. 8頁.
3. 沿海護岸ノ破壞ニ就テ. 4頁.
4. 東京市ノ市區改正ヲ論ス. (二) 6頁.
5. 水力ト我國. (二) 6頁.
6. 遭難船ノ復舊. (二) 8頁.

第五卷 第三號(第四十七號) 大正七年三月十日.

1. 軌道布設豫算調私見. 7頁.
2. 東京市内河川大浚渫事業施行ニ伴フ護岸ノ施設. 4頁.
3. 水力ト我國. (三) 10頁.
4. 東京市ノ市區改正ヲ論ス. (三) 9頁.

工 學 會 誌

第四百十三卷 大正七年一月二十五日.

1. 請負業者ノ眼ニ映シタル鐵道工事. (其二) 27頁.

第四百十四卷. 大正七年二月二十二日.

1. 臥龍橋架設工事報告. 34 頁.

工業雜誌

第四十八卷. 第六百二十一號. 大正七年二月五日.

1. 隅田川改良第二期工事概要. 9 頁.

第四十八卷. 第六百二十三號. 大正七年三月五日.

1. 海瀟ノ護岸ノ破壞及其復舊ニ就テ. (一) 4 頁.

帝國鐵道協會會報

第十九卷. 第一號. 大正七年一月二十五日.

1. 陸羽東線建設工事概要. 25 頁.

第十九卷. 第二號. 大正七年二月二十五日.

1. 米國幹線電氣鐵道ニ就テ. 42 頁.
2. 臺灣鐵道臺東線紀要. 70 頁.

ANNALES DES PONTS ET CHAUSSEES PARTIE TECHNIQUE

Tome XL. Vol. IV. Juillet-Août, 1917.

1. Construction des tramways électriques du Saint-Gironnais. 41 p.
2. Le principe de Clemens Herschel concernant l'écoulement sur les déversoirs noyés et les formules de Bazin. 44 p.

Tome XL. Vol. V. Sept.—Oct., 1917.

1. Les chemins de fer à faible trafic des grands réseaux après la guerre. Réduction du nombre des employés et des dépenses d'exploitation. 73 p.
2. Sur la théorie des ondes de crues. 11 p.

BULLETIN OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION

Vol. 10. No. 201. November, 1917.

1. Report on signals and interlocking. 25 p.

Vol. 10. No. 202. December, 1917.

1. Report on track. 21 p.
2. Report on economies of railway labor. 73 p.
3. Report on conservation of natural resources. 20 p.
4. Report on water service. 30 p.
5. Report on buildings. 28 p.

BULLETIN OF THE SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION

Vol. VIII. No. 4. December, 1917.

1. Symbols for mechanics and hydraulics. 9 p.

CASSIERS' ENGINEERING MONTHLY.

Vol. 52. No. 6. December, 1917.

1. The mechanical handling of goods in engineering workshops. 17 p.
2. The future of British railways. 6 p.

CEMENT WORLD

Vol. 11. No. 12. December, 1917.

1. Spalling and its probable causes. 3 p.
2. Concrete road construction and maintenance. 2½ p.
3. Reservoir waterproofed with hydrated lime. 2 p.

CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. XII. No. 12. December, 1917.

1. Researches on reinforced concrete beams. Part V. 9 p.
2. Reinforced concrete construction in connection with the Cabbage Tree Creek Reservoir, Brisbane. 4 p.

Vol. XIII. No. 1. January, 1918.

1. The corrosion of iron and steel with special reference to reinforced concrete. 6 p.

ELECTRIC RAILWAY JOURNAL

Vol. 50. No. 26. Dec. 29, 1917.

1. Savona-Ceva Mountain Railway electrification. 3½ p.
2. Doing a big track construction job with a minimum of labor. 2 p.

Vol. 51. No. 1. Jan. 5, 1918.

1. Further electrification of railroads important. 4 p.

Vol. 51. No. 4. Jan. 26, 1918.

1. An early experimental study of rail wear. 4 p.
2. Welded rail joints. 2½ p.
3. Articulating manganese crossings for longer life. 2 p.

Vol. 51. No. 6. Feb. 2, 1918.

1. Relieving the most congested point in Washington. 2 p.

Vol. 51. No. 7. Feb. 16, 1918.

1. Rebuilding an elevated railway under regular schedule traffic. 3 p.

ENGINEERING

Vol. CIV. No. 2712. Dec. 21, 1917.

1. Keadby railway and highway Scherzer roller lift Bridge. 5 p.

Vol. CV. No. 2715. Jan. 11, 1918.

1. Modern methods for the storage of coal. 6 p.

Vol. CV. No. 2716. Jan. 18, 1918.

1. Circular-arc bow girder. 2½ p.
2. Modern methods for the storage of coal. 3 p.
3. The creep of rails. 1 p.

Vol. CV. No. 2717. Jan. 25, 1918.

1. The Sciotoville Bridge. 3 p.
 2. The economics of the Chinese Railways. 2 p.
 3. Traction on bad roads or land. 3p.
- Vol. CV. No. 2718. Feb. 1, 1918.
1. Traction on bad roads or land. 6 p.
- Vol. CV. No. 2719. Feb. 8, 1918.
1. The economics of the Chinese railways. 2 p.
 2. Traction on bad roads or land. 5 p.

ENGINEERING AND CEMENT WORLD

- Vol. 12. No. 1. Jan. 1, 1918.
1. A review of the year's work in the engineering and concrete field. 19 p.
 2. Long concrete railroad viaduct cheaper than one of steel. 3½ p.
 3. The Mountain Dell Dam in Utah. 3p.
- Vol. 12. No. 2. Jan. 15, 1918.
1. Engineering practice and construction work on Upper Mississippi River. 6 p.
 2. Construction of seventy-first street bridge, Kansas City. 3 p.
 3. Durability of cement drain tile and concrete in alkali soils. 5 p.
 4. Rate of application of load on compressive strength of concrete. 3 p.
 5. Method of construction of asphalt macadam pavements. 2 p.
- Vol. 12. No. 3. Feb. 1, 1918.
1. Park Avenue bridge, Cincinnati, Ohio. 3 p.
 2. Notable underpinning work by eastern contractors. 6 p.
 3. Chicago reinforced concrete slab floor rules. 2 p.
- Vol. 12. No. 4. Feb. 15, 1918.
1. Work of constructing Hog Island shipyard. 5 p.
 2. Most notable subway in the world. 7 p.
 3. Special precautions necessary in winter concrete work. 3 p.
 4. Plans for controlling flood waters in the Miami Valley, Ohio. 5 p.

ENGINEERING NEWS-RECORD

- Vol. 79. No. 24. Dec. 13, 1917.
1. Concrete shipbuilding firmly established by Norwegian firm. 3½ p.
 2. Steel-frame hull forms top story of concrete building. 4 p.
- Vol. 79. No. 25. Dec. 20, 1917.
1. Designing the 720-foot Metropolis span. 4 p.
 2. Chicago reinforced-concrete flat-slab ruling amended. 3 p.
 3. Creosoted block can be laid on hardened pitch cheaper than on dry mortar. 2 p.
- Vol. 79. No. 26. Dec. 27, 1917.
1. Philippine City's lowland raised by harbor dredging. 2 p.
 2. Two methods of maintaining gravel roads in Maine. 1½ p.
 3. Five million yards moved to dam three rivers. 3 p.
- Vol. 80. No. 1. Jan. 3, 1918.
1. Three government shipyards huge problem in plant layout. 8 p.
 2. Drive 15,000 piles for pair of thousand-foot shipways. 2½ p.
- Vol. 80. No. 2. Jan. 10, 1918.
1. The prospect for water-power development. 2 p.
 2. Problems and general methods of erecting the Sciotoville Bridge. 7 p.

3. Traveling towers place 92,000 yards of concrete. 3½ p.
 4. Condition of road surface outweighs type of bitumen. 2 p.
 5. Union pacific adopts units-member concrete snow sheds. 3 p.
 6. Caissons and cribs for lighthouses foundations. 3 p.
- Vol. 80. No. 3. Jan. 17, 1918.
1. First large concrete ship is building at San Francisco. 4 p.
 2. Stone filled sheet asphalt suffers from inattention to details. 2 p.
 3. Making and placing ten miles of concrete pipe for Winnipeg Aqueduct. 3 p.
 4. Land big drop shaft on seal and curb well. 2 p.
 5. New ocean freight terminal started on Staten Island. 3 p.
 6. Floating-crest gates used on Sherburne Lakes dam. 2 p.
- Vol. 80. No. 4. Jan. 24, 1918.
1. Pneumatic mixer train on Mount Royal Tunnel. 4½ p.
- Vol. 80. No. 5. Jan. 31, 1918.
1. American road-building work in French war zone organized. 2½ p.
 2. Concrete plant on Boston dry dock almost automatic. 5 p.
 3. Lessons learned from road work in war years will be permanently helpful. 2 p.
 4. Truss erection and jacking operations for two 775-foot continuous spans. 8 p.
- Vol. 80. No. 6. Feb. 7, 1918.
1. One-hundred-foot concrete arch carries theater balcony. 3 p.
 2. Low working stress for square-end steel columns is recommended. 4 p.
 3. Capacity of Toronto refuse destructor exceeds contract provision. 5 p.
 4. More comment on the behavior of sea water concrete. 4 p.
 5. Frisco railway tries cylindrical cooling stations. 1½ p.
- Vol. 80. No. 7. Feb. 14, 1918.
1. Illinois central bascule bridge is hand operated. 2 p.
 2. Laying out and justifying a program for road work during war times. 1½ p.
 3. Wood-block pavement failures of southern cities analyzed 3½ p.
 4. Recovery of grease and fertilizers from sewage comes to the front. 4 p.
- Vol. 80. No. 8. Feb. 21, 1918.
1. Concrete-arch railway bridge costs less than steel. 3½ p.
 2. American railway yard and terminal development in France presents many new problems. 2 p.
 3. Cable inclines carry boats over Illinois River levee. 3 p.
 4. Earth dam has screened gravel core and pipe drains. 3 p.

JOURNAL OF THE NEW ENGLAND WATER WORKS
ASSOCIATION

六

- Vol. 31. No. 4. December, 1917.
1. The design of diversion conduit and waste works of Richards Corner Dam at New Hartford, Conn. 8 p.
 2. The construction of Nepaug Dam. 6 p.
 3. Grouting of rock foundations of the dams of the additional water supply of the city of Hartford. 10 p.
 4. Cure and operation of mechanical rapid sand filtration plant. 8 p.

JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

Vol. XXII. No. 8. October, 1917.

1. Effect of fire on the flat slab building of the Quaker Oats Company, Peterboro, Ont. 35 p.

LE GENIE CIVIL

Tome LXXI. No. 24. 15 Déc., 1917.

1. Grandes Voûtes. 5 p.

Tome LXXI. No. 25. 22 Déc., 1917.

1. Les travaux d'extension du port du Havre. 7 p.
2. Calcul d'une conduite en béton armé. 2 p.

Tome LXXII. No. 1. 12 Jan., 1918.

1. Les tramways électriques d'Alger. 4 p.

Tome LXXII. No. 5. 2 Fév., 1918.

1. L'aération des chemins de fer métropolitains souterrains. 2 p.
2. Construction de l'écluse de Hausweert, sur le canal de Zuid-Beveland. 5 p.

Tome LXXII. No. 6. 9 Fév., 1918.

1. La construction des navires de commerce aux États-Unis. 3 p.
2. Détermination des dimensions les plus avantageuses des principaux éléments d'une installation hydraulique. 2 p.

PROFESSIONAL MEMOIRS

CORPS OF ENGINEERS, UNITED STATES ARMY, AND ENGINEER DEPARTMENT AT LARGE

Vol. X. No. 49. Jan.-Feb., 1918.

1. Construction of rubble mound extension to breakwater at Marquette, Mich. 20 p.

RAILWAY AGE GAZETTE

Vol. 63. No. 24. Dec. 14, 1917.

1. Snow shed construction in the Cascades. 5 p.

Vol. 63. No. 25. Dec. 21, 1917.

1. The British Railways under government control. 5 p.
2. Railroad views on the valuation act. 7 p.

Vol. 63. No. 26. Dec. 28, 1917.

1. Concrete snow sheds on the Union Pacific. 6 p.

RAILWAY AGE

Vol. 64. No. 1. Jan. 4, 1918.

1. Nation's railroad under government control. 6 p.

Vol. 64. No. 2. Jan. 11, 1918.

1. A railway's part in developing Western Canada. 4½ p.

Vol. 64. No. 4. Jan. 25, 1918.

1. The Baghdad Railway and its part in the war. 3 p.
2. The new Pennsylvania entrance into Indianapolis. 3 p.

- Vol. 64. No. 5. Feb. 1, 1918.
1. Report of the eight-hour day commission. 9 p.
 2. The trans-continental railway of Australia. 3 p.
- Vol. 64. No. 6. Feb. 8, 1918.
1. The car conservation problem solved in China. 2½ p.
 2. Pennsylvania system rejects screw spikes. 4½ p.
- Vol. 64. No. 7. Feb. 15, 1918.
1. Shifting a 4,000-ton bridge on freight car trucks. 4 p.
 2. Pulling the Chicago terminals out of the snow. 2 p.

RAILWAY GAZETTE

- Vol. XXVII. No. 25. Dec. 21, 1917.
1. Rail failures in U. S. A. for 1916. 1 p.
- Vol. XXVIII. No. 3. Jan. 18, 1918.
1. An electro-mechanical signalling plant in U. S. A. 2 p.
- Vol. XXVIII. No. 5. Feb. 1, 1918.
1. Electrical signalling and control on railways. 3½ p.

RAILWAY MAINTENANCE ENGINEER

- Vol. 14. No. 1. January, 1918.
1. Standardizing methods of track work. 3 p.
 2. Salt treatment of timber piles. 1½ p.
 3. Renewing the stringers on trestles. 4 p.
 4. American track standards in France. 2½ p.
 5. A comparison of two forms of snow shed construction. 4 p.
- Vol. 14. No. 2. February, 1918.
1. The maintenance of way labor situation. 12 p.
 2. Handling maintenance work with less men. 12 p.
 3. Increasing track work efficiency. 18 p.

RAILWAY REVIEW

- Vol. 61. No. 25. Dec. 22, 1917.
1. New grain elevator of the Pennsylvania Railroad at Erie, Pa. 2 p.
- Vol. 61. No. 26. Dec. 29, 1917.
1. Progress on the Boston subway. 4 p.
- Vol. 62. No. 1. Jan. 5, 1918.
1. Railway construction in the United States and Canada—1917. 4 p.
- Vol. 62. No. 2. Jan. 12, 1918.
1. Constructing logging railroad with a ditcher. 3½ p.
- Vol. 62. No. 3. Jan. 19, 1918.
1. Track elevation work of the P. C. C. & St. L. Ry. in Cincinnati. 4 p.
- Vol. 62. No. 4. Jan. 26, 1918.
1. Opening of the Metropolis Bridge. 1 p.
 2. Relation between average life of ties and percentage of renewals. 2 p.
- Vol. 62. No. 6. Feb. 9, 1918.
1. New Pennsylvania Railroad bridge at Mannymuk, Pa. 2 p.
 2. Oxy-acetylene and electric welding. 3 p.
- Vol. 62. No. 7. Feb. 16, 1918.

1. New freight house for the Illinois Central R. R. at Champaign, Ill. 4 p.
2. New freight terminal of P. C. C. & St. L. Ry., at Indianapolis. 5 p.

SCHWEIZERISCHE BAUZEITUNG

Band LXX. No. 23. 8. Dez., 1917.

1. Geologische und hydrologische Beobachtungen über den Mont d'Or-Tunnel und dessen anschliessende Gebiete. $3\frac{1}{2}$ p.
2. Die Wasserkraftanlagen Treppe und Seros der Barcelona Traction, Light & Power Co. $2\frac{1}{2}$ p.

Band LXX. No. 24. 15. Dez., 1917.

1. Die Wasserkraftanlagen Treppe und Seros der Barcelona Traction, Light & Power Co. 2 p.
2. Geologische und hydrologische Beobachtungen über den Mont d'Or-Tunnel und dessen anschliessende Gebiete. 4 p.

Band LXX. No. 25. 22. Dez., 1917.

1. Geologische und hydrologische Beobachtungen über den Mont d'Or-Tunnel und dessen anschliessende Gebiete. 2 p.

Band LXXI. No. 1. 5 Jan., 1918.

1. Die Nivellement hoher Präzision und die internationalen Vorschriften ihrer Fehlerberechnung. 3 p.
2. Das neue vereinigte Reibungs- und Zahnbahn-System Peter. $2\frac{1}{2}$ p.

Band LXXI. No. 2. 12. Jan., 1918.

1. Das neue vereinigte Reibungs- und Zahnbahn-System Peter. 3 p.
2. Die Nivellements hoher Präzision und die internationalen Vorschriften ihrer Fehlerberechnung. 3 p.

SCIENTIFIC AMERICAN

Vol. CXVII. No. 26. Dec. 29, 1917.

1. Two million more horse power from the Niagara River. 1 p.

Vol. CXVIII. No. 1. Jan. 5, 1918.

1. Roads-good and bad. (How they came to be and what they mean to the user.) 2 p.
2. A yielding barrier that is fool-proof. (Halting the speed maniac at the drawbridge and the railroad crossing.)

Vol. CXVIII. No. 2. Jan. 12, 1918.

1. New York State Barge Canal. (Completing a great waterway from the lakes to the Atlantic.) $2\frac{1}{2}$ p.

Vol. CXVIII. No. 8. Feb. 23, 1918.

1. Building a dam of concrete slabs. (An interesting type of construction adopted in the Twin cities river improvement.) 1 p.

THE CANADIAN ENGINEER

Vol. 34. No. 1. Jan. 3, 1918.

1. City surveying monuments. 4 p.
2. Sanitary street cleaning. $2\frac{1}{2}$ p.

Vol. 34. No. 2. Jan. 10, 1918.

1. Mount Pleasant road bridge, Toronto. 6 p.

2. Relative efficiency in methods of repairs to bituminous macadam and bituminous concrete pavements. 3 p.
- Vol. 34. No. 3. Jan. 17, 1918.
1. Demolition of the ragged rapids dam. $2\frac{1}{2}$ p.
 2. Design of restrained beams carrying hydrostatic load. $1\frac{1}{2}$ p.
 3. Effect on orifice and weir flow of slight roundings of the upstream edge. 2 p.
- Vol. 34. No. 4. Jan. 24, 1918.
1. Problem of backwater. 4 p.
 2. Efficiency of the application of bituminous materials for surface treatments on gravel and broken stone roads. $2\frac{1}{2}$ p.
- Vol. 34. No. 6. Feb. 7, 1918.
1. Expansion joints and traction trusses, Quebec Bridge. 6 p.
- Vol. 34. No. 7. Feb. 14, 1918.
1. Reconstruction of Queen Street sewer, Toronto. 6 p.
 2. The logical proportioning of concrete aggregate. 2 p.
 3. Pulsations in pipe lines. 1 p.
 4. The new Chicago rules for design of reinforced concrete slab floors. 3 p.

THE ENGINEER

- Vol. CXXIV. No. 3224. Oct. 12, 1917.
1. The Virginian Railway. 3 p.
- Vol. CXXIV. No. 3225. Oct. 19, 1917.
1. Quebec Bridge. $1\frac{1}{2}$ p.
- Vol. CXXIV. No. 3226. Oct. 26, 1917.
1. The Australian transcontinental railway. 2 p.
- Vol. CXXIV. No. 3227. Nov. 2, 1917.
1. Erection of the suspended span of the Quebec Bridge. No. I. 3 p.
- Vol. CXXIV. No. 3228. Nov. 9, 1917.
1. The Mansfield Railway. 2 p.
 2. Erection of the suspended span of the Quebec Bridge. No. II. 5 p.
- Vol. CXXIV. No. 3229. Nov. 16, 1917.
1. Erection of the suspended span of the Quebec Bridge No. III. 2 p.
- Vol. CXXIV. No. 3230. Nov. 23, 1917.
1. Atmospheric pollution and the impurities of rain-water. 2 p.
 2. The failure of boiler plates and the stresses in riveted joints. $1\frac{1}{2}$ p.
- Vol. CXXIV. No. 3231. Nov. 30, 1917.
1. Mid-Scotland ship canal schemes. $2\frac{1}{2}$ p.
 2. High capacity narrow gauge rolling stock for Burma. 2 p.
- Vol. CXXIV. No. 3234. Dec. 21, 1917.
1. Mid-Scotland ship canals. No. I. 3 p.
- Vol. CXXIV. No. 3235. Dec. 28, 1917.
1. Mid-Scotland ship canals. No. II. 4 p.
- Vol. CXXV. No. 3240. Feb. 1, 1918.
1. 60-ft. locomotive turntable at Newhaven. 2 p.
- Vol. CXXV. No. 3241. Feb. 8, 1918.
1. Mid-Scotland ship canals. No. III. 2 p.
 2. New trunk main between Burrator and Boborough Reservoirs. 2 p.

THE FAR EASTERN REVIEW

Vol. XIII. No. 19. December, 1918.

1. How the water was pumped out of the British concession, Tientsin. 3 p.
2. Chihli Province river conservance. 2 p.
3. River conservance in Northern Anhwei. 3 p.

Vol. XIV. No. 1. January, 1918.

1. The flood damage to the Peking-Hankow Railway. 4 p.

Vol. XIV. No. 2 February, 1918.

1. Chinese Government Railway system in 1917. 6 p.
2. China and the Chinese Eastern Railway. 2 p.

THE RAILWAY ENGINEER

Vol. XXXIX. No. 456. January, 1918.

1. The effect of water scooping on train resistances. 1 p.
2. Tunnels. IX. 4½ p.

Vol. XXXIX. No. 457. February, 1918.

1. Rail creep. 1 p.
2. On the testing of metallic bridges. I. 2 p.

THE RAILWAY MAGAZINE

Vol. XLII. No. 247. January, 1918.

1. The locomotive department of the Great Northern Railway, New England Peterborough. 8 p.
2. Railway track facilities and improvements. 6 p.

Vol. XLII. No. 248. February, 1918.

1. French railway signalling code. 8 p.

WATER AND WATER ENGINEERING

Vol. XIX. No. 228. December, 1917.

1. Reinforced concrete and water tower construction in Holland. 4 p.
2. Some notes on air-lift pumping. 4½ p.
3. Theory of the air-lift pump. 4 p.