

## 新刊紹介

土木學會誌 第五卷第二號 大正八年四月

- Bowles, O.—Rock quarring for cement manufacture. 152 p., illustrated, 6×9, paper. Washington, D.C.: Bureau of Mines. Price: 25 c. from superintendent of documents.
- Donaghey, J. T.—Highway maintenance. 69 p., illustrated, 6×9, paper. Madison, Wis.: Highway Commission.
- Greve, F. W.—Flow of water through one and one-half inch pipe and valves. 21 p., illustrated, 5×9, paper. Bulletin No. 1, Engineering Experiment Station. Lafayette, Ind.: Purdue University.
- Northrop, J. D.—Asphalt related bitumens, and bituminous rock in 1917. 18 p., illustrated, 6×9, paper. Washington, D.C.: U.S. Geological Survey.
- Richards, G.—Ferro-concrete in India. 85 p., illustrated, 9×12, paper. The Author.
- Richert, J. G.—The future development of the Shanghai Harbour. 54 p., illustrated, 9×12, paper.
- Slichter, C. S.—Elementary mathematical analysis. 489 p., 5×7, cloth. New York: McGraw-Hill Book Co. Price: \$2.50.
- American Society for testing materials standard. 858 p., illustrated, 6×9, cloth. Philadelphia, Pa.: University of Pennsylvania. Price: to non member \$9, to member \$6.
- Hydraulic experiments with valves, orifices, hose, nozzles, and orifice buckets. Urbana, Ill.: Engineering Experiment Station. 80 p., illustrated, 6×9, paper.

新刊紹介  
内外諸雜誌主要題目

## 内外諸雜誌主要題目

## 工學

第六卷 第二號(第五十八號) 大正八年二月十日

1. 等高線挿入法. 3頁.
2. 急速都市鐵道. 3頁.
3. 竹筋混凝土柵. 4頁.
4. 東京市水道擴張工事東村山貯水池下堰堤工事概況. 8頁.
5. 無鉸拱ニ要スル基礎公式ノ圖式解法. (二). 6頁.
6. 靜定結構ノ撓度ヲ求ムル諸法. (二). 7頁.
7. 列車走行ニ於ケル抵抗及其影響. (二). 7頁.

第六卷 第三號(第五十九號) 大正八年三月十日

1. 都市ト交通. 6½頁.
2. 簡易鐵筋混凝土工施工法概念. 9頁.
3. しんぶそん氏ノ公式ニ就テ. 3½頁.
4. 列車走行ニ於ケル抵抗及ヒ其影響. (三). 7頁.
5. 河川ノ流量曲線ト其解法. (二). 4½頁.

6. 鐵筋混凝土拱橋設計々算例. (二). 5頁.
7. 靜定結構ノ撓度ヲ求ムル諸法. (三). 8頁.

### 工學會誌

第四百二十四卷. 大正八年一月三十一日.

1. 直營是乎請負非乎. 4頁.
2. 家屋衛生ニ關スル二三ノ注意. 11½頁.

第四百二十五卷. 大正八年二月二十八日.

1. 戰時中ニ於ケル我工業ノ發達. 30頁.

### 工業雜誌

第五十卷. 第六百四十六號. 大正八年二月二十日.

1. 貨車渡解舟ノ應用. 5½頁.

第五十卷. 第六百四十七號. 大正八年三月五日.

1. 銑鐵鑄物ノ變形ニ就テ. 6頁.

### 帝國鐵道協會會報

第二十卷. 第一號. 大正八年一月二十五日.

1. 國有鐵道輸送力改良私案. 17頁.

第二十卷. 第二號. 大正八年二月二十五日.

1. 世界大戰ノ爲メ帝國鐵道財政上ニ蒙リタル影響ノ大要. 9頁.

### ANNALES DES PONTS ET CHAUSSÉES PARTIE TECHNIQUE

Tome XLV. Vol. IV. Juillet-Août, 1918.

1. Paroles prononcées aux obsèques du Lieutenant-Colonel Naudé. 6 p.
2. Sur les données actuelles en matières de construction d'usines hydro-électriques. 90 p.
3. Entretien des voies ferrées par le soufflage du ballast. 4 p.

### CANADIAN ENGINEER

Vol. 35. No. 24. Dec. 12, 1918.

1. Canada's heritage in the St. Lawrence River. 4 p.
2. Sewage disposal from an operator's standpoint. 1½ p.
3. Control of stream pollution. 3¼ p.
4. Electric power generation in Ontario on systems of hydro-electric power commission. 3½ p.

Vol. 35. No. 25. Dec. 19, 1918.

1. Lindsay-Strathmore irrigation flume. 3 p.
2. Electric power generation in Ontario on systems of hydro-electric power commission. 2 p.

3. Water treatment at Council Grove, Kansas.  $2\frac{1}{2}$  p.
- Vol. 35. No. 26. Dec. 26, 1918.
1. Design of concrete truss bridges. 1 p.
  2. Weston road pavement.  $2\frac{1}{2}$  p.
- Vol. 36. No. 1. Jan. 2, 1919.
1. Meteorology and stream regulation.  $2\frac{1}{2}$  p.
  2. Rideau River intercepting sewer, Ottawa.  $2\frac{1}{2}$  p.
- Vol. 36. No. 2. Jan. 9, 1919.
1. Relation of the curve to town-planning.  $2\frac{1}{2}$  p.
  2. Steam shovel practice.  $3\frac{3}{4}$  p.
  3. Width of provincial highways.  $2\frac{1}{2}$  p.
- Vol. 36. No. 3. Jan. 16, 1919.
1. Extention to the Ontario Power Company's plant. 9 p.
  2. Bituminous surfaces in York County, Ont.  $1\frac{1}{4}$  p.
  3. Reinforced concrete pressure pipe.  $1\frac{1}{2}$  p.
- Vol. 36. No. 4. Jan. 23, 1919.
1. Economics of the C.N.R. tunnel at Montreal. 6 p.
  2. Rosedale Creek sewer extension, Toronto.  $1\frac{1}{2}$  p.
- Vol. 36. No. 5. Jan. 30, 1919.
1. 2,305,310 H.P. developed from water in Canada.  $1\frac{1}{2}$  p.
  2. Power development at Drummondville, P.Q.  $2\frac{3}{4}$  p.
  3. Wooden structures in railroad engineering. 3 p.
- Vol. 36. No. 6. Feb. 6, 1919.
1. Storm sewer extension at Toronto harbor.  $2\frac{1}{2}$  p.
  2. Central electric power station statistics.  $2\frac{1}{4}$  p.
- Vol. 36. No. 7. Feb. 13, 1919.
1. Water-power administration in Canada. 2 p.
  2. Town planning. 2 p.
- Vol. 36. No. 8. Feb. 20, 1919.
1. Empirical column formula for brick piers.  $4\frac{1}{2}$  p.
  2. Design of hydro-electric plants to combat ice troubles. 6 p.
  3. Railway electrification. 4 p.
  4. Specifications for asphalt binder and refined and blended coal tar.  $\frac{3}{4}$  p.

### CONCRETE AND CONSTRUCTIONAL ENGINEERING

- Vol. XIII. No. 12. December, 1918:
1. Reinforced concrete purifiers. 6 p.
  2. Detail design in reinforced concrete. 9 p.
  3. Some reinforced concrete bridges. 6 p.
  4. Concrete road at Greenhithe. 2 p.
  5. Asbestos cement. 5 p.
- Vol. XIV. No. 1. January, 1919.
1. A concrete development at the Port of London Authority. 10 p.
  2. Some recent concrete roads.  $3\frac{1}{2}$  p.
  3. Asbestos cement. Part II. 4 p.

### ELECTRIC RAILWAY JOURNAL

- Vol. 52. No. 24. Dec. 14, 1918.

1. Description of a two-unit automatic substation. 7 p.
  2. Making the old track last a little while longer. 2 p.
- Vol. 52. No. 25. Dec. 21, 1918.
1. Modern track needs good ballast and drainage. 5½ p.
  2. Winter track construction at Sharon, Pa. 1½ p.
- Vol. 52. No. 26. Dec. 28, 1918.
1. Storage yard rearrangement, Kansas City railways. 3½ p.
  2. The evolution of the tramway rail. 1½ p.
- Vol. 53. No. 1. Jan. 4, 1919.
1. New track constructed and track rebuilt during 1918. 2 p.
- Vol. 53. No. 2. Jan. 11, 1919.
1. Automatic substations on the North Shore line. 6 p.
  2. Canadian lines near breaking point. 2 p.
  3. Equipment accessories desirable in electric arc welding. 2 p.
- Vol. 53. No. 3. Jan. 18, 1919.
1. Some emergency special work construction. 1½ p.
- Vol. 53. No. 4. Jan. 25, 1919.
1. Leakage resistance of electric railway roadbeds. 6½ p.
  2. New type of electrically-welded joint successful. 2 p.
- Vol. 53. No. 5. Feb. 1, 1919.
1. What electric freight handling requires and costs. 9¼ p.
  2. Concrete base track on steam road. 1½ p.
- Vol. 53. No. 6. Feb. 8, 1919.
1. Bonus system reduces coal consumption at Denver. 4¼ p.
  2. Characteristics of metallic-electrode arc welds. 2 p.
- Vol. 53. No. 7. Feb. 15, 1919.
1. Tie renewal cost reduction deserves serious study. 7¼ p.
  2. Bridgeport well pleased with new safety cars. 3½ p.
  3. Some examples of pole guying from other fields. 3½ p.

## ENGINEERING

- Vol. CVI. No. 2761. Nov. 29, 1918.
1. Recent harbour and dock works at Singapore Straits Settlements. 4 p.  
with 1 plate.
  2. The Tata hydro-electric power-supply works, Bombay. ½ p.
  3. The wear of metals. 5 p.
- Vol. CVI. No. 2762. Dec. 6, 1918.
1. Rigidity of riveted joints of steel structures. 2½ p.
  2. Champlain dry dock for Quebec Harbour. 4 p.
- Vol. CVI. No. 2763. Dec. 13, 1918.
1. Recent harbour and dock works at Singapore Straits Settlements. 4½ p.  
with 1 plate.
- Vol. CVI. No. 2764. Dec. 20, 1918.
1. An approximate graphical treatment of some strut problems. 2 p.
  2. Recent harbour and dock works at Singapore Straits Settlements. 3½ p.  
with 1 plate.
- Vol. CVI. No. 2765. Dec. 27, 1918.
1. Road transport. 1 p.
- Vol. CVII. No. 2766. Jan. 3, 1919.
1. Stokesay Bridge, Shropshire, 4 p.

- Vol. CVII. No. 2767. Jan. 10, 1919.
1. Coal-handling appliances at the conventry electricity works.  $4\frac{2}{3}$  p. with 4 plates.
- Vol. CVII. No. 2769. Jan. 24, 1919.
1. Critical distributed loads for long struts. 2 p.
  2. A machine for measuring screws. 3 p.
- Vol. CVII. No. 2770. Jan. 31, 1919.
1. Critical distributed loads for long struts. 2 p.

## ENGINEERING NEWS-RECORD

- Vol. 81. No. 24. Dec. 12, 1918.
1. Building a government 3500-ton concrete ship. 7 p.
  2. Principles controlling the layout, marking and maintenance of trunk highway systems.  $3\frac{1}{2}$  p.
  3. Engineering education affected by war experience. 2 p.
  4. Concrete-base track gives good results on Northern Pacific Railway.  $3\frac{1}{2}$  p.
  5. Waterproofed floors for railway crossing over streets. 5 p.
- Vol. 81. No. 25. Dec. 19, 1918.
1. Regulation of speed, weight, width and height of motor trucks discussed.  $3\frac{1}{2}$  d.
  2. Electric heaters keep track switches clear of snow and ice.  $\frac{1}{2}$  p.
  3. Principles controlling the layout, marking and maintenance of truck highway systems.  $6\frac{1}{2}$  p.
- Vol. 81. No. 26. Dec. 26, 1918.
1. A study of the slip in the Calaveras Dam.  $6\frac{1}{2}$  p.
  2. Motor trucks and plank roads help to get out airplane spruce.  $1\frac{3}{4}$  p.
  3. Stress measurements on Niagara Gorge Railway bridges. 3 p.
  4. "Imaginative" and speculative highways for Tomorrow. 3 p.
  5. Railroad repair shops in France equipped and operated by American forces.  $4\frac{1}{2}$  p.
  6. Erection experiences at the Sciotoville Bridge.  $4\frac{1}{2}$  p.
  7. Highway administration and maintenance. 1 p.
  8. Constructing gravel road across Salt Lake desert. 1 p.
- Vol. 82. No. 1. Jan. 2, 1919.
1. Berth construction and side-launching practice in great lakes shipyards. 7 p.
  2. What the year has taught about the concrete ship. 2 p.
  3. Fourteen points essential to establishing a sound railway policy. 3 p.
  4. Built boats in dry docks at new yard in Detroit. 4 p.
  5. Routing of fabricated ship material at Bristol. 6 p.
  6. Conveyor handles freight at river port.
  7. Are American engineers and contractors wanted in France?  $1\frac{1}{2}$  p.
  8. Four methods of sewage treatment student at New Haven testing station.  $4\frac{1}{2}$  p.
  9. Aerial cableways successful in northwest shipyards.  $3\frac{1}{2}$  p.
- Vol. 82. No. 2. Jan. 9, 1919.
1. Electrically driven high-lift centrifugal pumps supply water for irrigation.  $5\frac{1}{2}$  p.
  2. Efforts to consolidate the engineering profession.  $2\frac{1}{2}$  p.
  3. Committee analyzes track-elevation costs on rock island work in Chicago.  $2\frac{1}{2}$  p.

4. Emergency shipbuilding on lakes handled by erection cranes of many types. 8 p.
  5. Road signs for amexforce trucks save gasoline. 2 p.
  6. War wage increase met by revising construction plan.  $3\frac{1}{2}$  p.
- Vol. 82. No. 3. Jan. 16, 1919.
1. Huge steel buildings at Ordnance base depot in France.  $5\frac{1}{2}$  p.
  2. Closure of concrete dam completed behind needle dam.  $1\frac{1}{2}$  p.
  3. Developments in the practice of laying and manufacturing paving materials. 1 p.
  4. Engineering educators' opinions reflect past and predict future conditions.  $5\frac{1}{2}$  p.
- Vol. 82. No. 4. Jan. 23, 1919.
1. Sanitary engineers get direct results in East Indian mining camp.  $3\frac{1}{2}$  p.
  2. Light and heavy equipment compared on identical sewer construction.  $2\frac{1}{2}$  p.
  3. Holding a bulging retaining wall with buttresses.  $1\frac{1}{2}$  p.
- Vol. 82. No. 5. Jan. 30, 1919.
1. The facts on the devastation and the present reconstruction efforts in France. 10 p.
  2. Pay and position of engineers in railway service. 4 p.
  3. Experimental data on wood-blocks—Use of zinc-treated ties.  $1\frac{1}{2}$  p.
  4. Philippine water-supplies get strict sanitary supervision.  $2\frac{1}{2}$  p.
  5. Design and operation of Fort Myer sewage-treatment plant.  $2\frac{1}{2}$  p.
  6. Chicago water-works intake crib tilted level with screw jacks. 2 p.
- Vol. 82. No. 6. Feb. 6, 1919.
1. How the New York Canal concrete barge is being built. 7 p.
  2. New car-icing plant accommodates twenty-eight.  $1\frac{1}{2}$  p.
  3. Structure and strength of overhead rivet steel.  $2\frac{3}{4}$  p.

## ENGINEERING WORLD

- Vol. 14. No. 1. Jan. 1, 1919.
1. Water front improvements in California. 4 p.
  2. Handling powdered coal as fluid. 6 p.
  3. Building floating dock in Black Sea.  $1\frac{3}{4}$  p.
  4. Inland river terminals. 3 p.
  5. Engineering features of cement gun. 5 p.
  6. Daylight vs Sunlight in sawtooth roof construction.—I. 3 p.
  7. The water supply for Montevideo.  $2\frac{1}{2}$  p.
  8. Material required for concrete pole foundations. 1 p.
- Vol. 14. No. 2. Jan. 15, 1919.
1. Government work on the Hudson River. 5 p.
  2. The Franklin-Orleans Bridge. 3 p.
  3. Post-war reclamation of arid lands. 4 p.
  4. The water supply of Montevideo. 4 p.
  5. Daylight vs sunlight in sawtooth roof construction.—II.  $3\frac{1}{2}$  p.
  6. Concrete railway track support.  $2\frac{1}{2}$  p.
- Vol. 14. No. 3. Feb. 1, 1919.
1. Engineering problems in viaduct construction. 3 p.
  2. San Francisco's sewage system.  $2\frac{1}{2}$  p.
  3. The chlorination of water supplies.  $2\frac{1}{2}$  p.

4. Sheet piling and forms used at Troy dam and locks. 6 p.
  5. Singapore harbor and dock improvements. 4 p.
  6. A 4,000,000-gallon reservoir. 1½ p.
  7. Soil and drainage pipes for buildings. 3 p.
- Vol. 14. No. 4. Feb. 15, 1919.
1. Costal and shore protection. 7 p.
  2. Reinforced concrete roof for cranes in buildings. 1½ p.
  3. Michigan's largest hydroelectric development. 3½ p.
  4. Wire-bag method of riprapping embankment. 1¼ p.
  5. Engineers must study road foundations. 4½ p.
  6. Mapping Niagara at the Brink. 2 p.
  7. Use of the cement gun in a bituminous coal mine. 2 p.

### JOURNAL OF THE NEW ENGLAND WATER WORKS ASSOCIATION

- Vol. XXXII. No. 4. December, 1919.
1. Camp Devens and its water supply. 29 p.
  2. The selection of meters. 34 p.
  3. Quatermaster terminal required for water works. 14 p.

### JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

- Vol. XXIII. No. 5. May, 1918.
1. The pneumatic method of concreting. 37 p.

### LA HOUILLE BLANCHE

- 17<sup>e</sup> Année. No. 23-24. Nov.-Déc., 1918.
1. L'aménagement du Rhône par le groupement des intéressés. 5½ p.
  2. Les Richesses hydrauliques du Maroc. 12½ p.

### LE GÉNIE CIVIL

- Tome LXXIII. No. 22. 30 Nov., 1918.
1. Machine allemande pour le creusement des tunnels et des galeries de mines. 2½ p.
  2. Développement des voies ferrées desservant le port de Rotterdam et ses extensions. 1 p. with 1 plate.
- Tome LXXIII. No. 23. 7 Déc., 1918.
1. Pont basculant de 42 mètres de portée à l'entrée du port de La Seyne (rade de Toulon). 4 p. with 1 plate.
  2. Méthode simple et rapide pour tracer la méridienne en un point, sans connaître sa latitude. 3¼ p.
  3. Nouveaux procédés pour la construction de pylônes en béton armé. 1 p.
- Tome LXXIII. No. 24. 14 Déc., 1918.
1. Le réseau navigable de la Saône. 2¾ p.
  2. Les proportions économiques des ponts en arc en acier. 2½ p.
- Tome LXXIII. No. 25. 21 Déc., 1918.

1. Nouvelle disposition de prise d'eau système Renault, pour usines à vapeur.  $2\frac{3}{4}$  p.  
Tome LXXIII. No. 26. 28 Déc., 1918.
1. Les chemins de fer de campagne allemands.  $5\frac{1}{2}$  p.  
Tome LXXIV. No. 1. 4 Jan., 1919.
1. L'électrification partielle des Chemins de fer de la Compagnie d'Orléans. 5 p.  
Tome LXXIV. No. 2. 11 Jan., 1919.
1. La mise en place du béton par gravite dans les chantiers de constructions civiles ou de travaux publics. 4 p.  
Tome LXXIV. No. 4. 25 Jan., 1919.
1. Améliorations récentes du port Singapour.  $5\frac{1}{2}$  p.  
2. Théorie de la hyperstatique à l'aide des poids élastiques.  $3\frac{3}{4}$  p.  
Tome LXXIV. No. 5. 1 Fév., 1919.
1. Théorie de la poutre hyperstatique à l'aide des poids élastiques. 5 p.

## MUNICIPAL JOURNAL

- Vol. XLV. No. 24. Dec. 14, 1918.
1. Pittsburgh garbage disposal report.  $3\frac{3}{4}$  p.  
2. Frankford greek intercepting sewer.  $2\frac{1}{4}$  p.
- Vol. XLV. No. 25. Dec. 21, 1918.
1. St. Louis waterworks operation.  $2\frac{1}{4}$  p.
- Vol. XLVI. No. 2. Jan. 11, 1919.
1. American methods and machinery applicable to construction and maintenance of French highways.  $9\frac{1}{2}$  p.
- Vol. XLVI. No. 4. Jan. 25, 1919.
1. French roads and the war. 1 p.  
2. Treatment and disposal of creamery wastes.  $2\frac{1}{2}$  p.
- Vol. XLVI. No. 5. Feb. 1, 1919.
1. A siphon reservoir blow-off.  $1\frac{3}{4}$  p.  
2. Rochester's sewer and paving specifications. 2 p.  
3. Water works operation: Reservoir maintenance. 3 p.
- Vol. XLVI. No. 6. Feb. 8, 1919.
1. Street cleaning methods. 4 p.  
2. Cost of highway maintenance in Washington.  $\frac{1}{2}$  p.  
3. Water works operation: Reservoir maintenance.  $2\frac{1}{4}$  p.
- Vol. XLVI. No. 7. Feb. 15, 1919.
1. Sewage screening plant in New York City.  $2\frac{3}{4}$  p.  
2. Street cleaning methods.  $1\frac{3}{4}$  p.  
3. Increasing municipal revenue.  $3\frac{1}{4}$  p.  
4. Making water analyses.  $1\frac{3}{4}$  p.

## RAILWAY AGE

- Vol. 65. No. 25. Dec. 20, 1918.
1. Railroad policy discussed by Walker D. Hines.  $5\frac{1}{2}$  p.  
2. Illinois Central reduces grades on Kentucky line 4 p.  
3. Hollow concrete poles made by new methods.  $1\frac{1}{4}$  p.
- Vol. 65. No. 26. Dec. 27, 1918.

1. New Haven improvements at South Boston terminal.  $3\frac{1}{4}$  p.
2. Railroadings two miles above sea level.  $3\frac{3}{4}$  p.
- Vol. 66. No. 1. Jan. 3, 1919.
1. American railway forces in the great war. 17 p.
- Vol. 66. No. 3. Jan. 17, 1919.
1. The American Railroad Association. 3 p.
- Vol. 66. No. 4. Jan. 24, 1919.
1. The reconstruction of a notable railroad bridge.  $5\frac{1}{2}$  p.
- Vol. 66. No. 6. Feb. 7, 1919.
1. The railway supply industry is hard hit. 5 p.
2. Tie producers discuss conditions in industry.  $5\frac{1}{2}$  p.
- Vol. 66. No. 7. Feb. 14, 1919.
1. The standard heavy Santa Fe type locomotive.  $3\frac{1}{4}$  p.
2. A new passenger station completed at Richmond, Va.  $5\frac{1}{4}$  p.

### RAILWAY GAZETTE

- Vol. XXIX. No. 22. Nov. 29, 1918.
1. The railway news 1864-1918. 4 p.
- Vol. XXIX. No. 23. Dec. 6, 1918.
1. The locomotive depôt of the Great Northern Railway at Colwick. 5 p.
- Vol. XXIX. No. 25. Dec. 20, 1918.
1. Reconstruction work on the Erie.  $3\frac{1}{2}$  p.
- Vol. XXIX. No. 26. Dec. 27, 1918.
1. Victorian Government railways.  $\frac{1}{2}$  p.
2. Light railways in Ireland.  $3\frac{1}{2}$  p.
3. Rail corrugation.  $\frac{1}{2}$  p.
- Vol. XXX. No. 1. Jan. 3, 1919.
1. Reinforced concrete trestle at North Toronto.  $1\frac{1}{2}$  p.
2. Willesden gravity and marshalling yards.  $3\frac{1}{2}$  p. with 4 plates.
- Vol. XXX. No. 2. Jan. 10, 1919.
1. How signals can increase track capacity.  $\frac{1}{2}$  p.
2. How signals can increase track capacity. 3 p.
- Vol. XXX. No. 3. Jan. 17, 1919.
1. European train speeds. 6 p.
- Vol. XXX. No. 4. Jan. 24, 1919.
1. Passenger congestion and the London traffic problem.  $\frac{1}{2}$  p.
2. European train speeds.  $7\frac{1}{4}$  p.
3. A bridge of double-headed old iron rails.  $\frac{3}{4}$  p.
- Vol. XXX. No. 5. Jan. 31, 1919.
1. European train speeds. 5 p.

### RAILWAY MAINTENANCE ENGINEER

- Vol. 15. No. 1. January, 1919.
1. Strengthening a long steel viaduct. 2 p.
2. Building a reservoir in a cavernous country.  $2\frac{1}{2}$  p.
3. Railway maintenance practices in Australia.  $1\frac{1}{4}$  p.
- Vol. 15. No. 2. February, 1919.
1. Strengthening Howe truss span. 1 p.

2. What our railway forces did in France.  $4\frac{1}{2}$  p.

### RAILWAY REVIEW

- Vol. 63. No. 24. Dec. 14, 1918.  
 1. Electrically welded gondola car. 2 p.  
 2. Investigation of transverse fissures in rails.  $4\frac{1}{2}$  p.
- Vol. 63. No. 25. Dec. 21, 1918.  
 1. Handling acetylene welding outfits.  $1\frac{1}{2}$  p.  
 2. Investigation of transverse fissures in rails.  $3\frac{1}{2}$  p.  
 3. Administration views on railroad problem. 4 p.  
 4. Eliminating railway grade crossings.  $1\frac{1}{2}$  p.  
 5. United States railroad administration. 8 p.
- Vol. 63. No. 26. Dec. 28, 1918.  
 1. Reclamation on Chicago Milwaukee & St. Paul.  $2\frac{1}{2}$  p.  
 2. United States railroad administration. 7 p.
- Vol. 64. No. 1. Jan. 4, 1919.  
 1. Peru and its principal railways.  $4\frac{1}{2}$  p.  
 2. Proper methods of handling freight.  $1\frac{1}{4}$  p.  
 3. Construction of the San Diego & Arizona Ry. 4 p.  
 4. United States railroad administration.  $7\frac{1}{2}$  p.
- Vol. 64. No. 2. Jan. 11, 1919.  
 1. Peru and its principal railways.  $4\frac{1}{2}$  p.
- Vol. 64. No. 3. Jan. 18, 1919.  
 1. Peru and its principal railways.  $4\frac{1}{2}$  p.  
 2. United States railroad administration.  $4\frac{1}{2}$  p.
- Vol. 64. No. 4. Jan. 25, 1919.  
 1. Santa Fe erects depot at San Bernardino, Cal.  $3\frac{1}{2}$  p.  
 2. The railroad question from an engineering and economic view. 5 p.  
 3. United States railroad administration. 5 p.
- Vol. 64. No. 5. Feb. 1, 1919.  
 1. Relocation of railways near Dayton, Ohio.  $5\frac{1}{4}$  p.  
 2. New Philadelphia & reading coaling station.  $\frac{1}{2}$  p.  
 3. United States railroad administration. 2 p.
- Vol. 64. No. 6. Feb. 8, 1919.  
 1. Improved railway conditions in Nicaragua. 5 p.  
 2. United States railroad administration. 3 p.
- Vol. 64. No. 7. Feb. 15, 1919.  
 1. New passenger station in Richmond, Va.  $3\frac{1}{2}$  p.  
 2. Comparison of methods for purchasing ties. 2 p.  
 3. United States railroad administration.  $2\frac{1}{2}$  p.

### SCHWEIZERISCHE BAUZEITUNG

- Band LXXII. Nr. 20. 16. Nov., 1918.  
 1. Die elektrische Solothurn-Bern-Bahn. 3 p.
- Band LXXII. Nr. 21. 23. Nov., 1918.  
 1. Die elektrische Solothurn-Bern-Bahn. 3 p.  
 2. Eisenbahnbrücke über die geplante Schiffartrinne Hammarbyleden südlich von Stockholm. 2 p.

- Band LXXII. Nr. 22. 30. Nov., 1918.  
 1. Die Erweiterung des Hauptbahnhofs Zurich. 2½ p.  
 Band LXXII. Nr. 23. 7. Dez., 1918.  
 1. Die Erweiterung des Hauptbahnhofs Zurich. 3 p.  
 Band LXXII. Nr. 25. 21. Dez., 1918.  
 1. Die Kläranlage der städtischen Kanalisation in St. Gallen. 3½ p.  
 Band LXXII. Nr. 26. 28. Dez., 1918.  
 1. Zur Berechnung von Tragfedern für Eisenbahn-Fahrzeuge. 2 p.

## SCIENTIFIC AMERICAN

- Vol. CXX. No. 3. Jan. 18, 1919.  
 1. An ingenious irrigation scheme. 1 p.  
 Vol. CXX. No. 4. Jan. 25, 1919.  
 1. Submarine range-finding by means of reflected sound waves. 1 p.  
 Vol. CXX. No. 7. Feb. 15, 1919.  
 1. A well-equipped lift bridge. ¼ p.

## SCIENTIFIC AMERICAN SUPPLEMENT

- Vol. LXXXVII. No. 2249. Feb. 8, 1919.  
 1. Transportation on the Magdalena River, Colombia. (Unique methods on one of the most interesting rivers). 2 p.  
 Vol. LXXXVII. No. 2250. Feb. 15, 1919.  
 1. Hot wire anemometry. (Its principles and applications). 2 p.

## THE ENGINEER

- Vol. CXXVI. No. 3284. Dec. 6, 1918.  
 1. Labour administration. No. XI. 2½ p.  
 Vol. CXXVI. No. 3285. Dec. 13, 1918.  
 1. The Katunga Railway. 2½ p. with 2 plates.  
 2. Labour administration. No. XII. 2½ p.  
 3. Bombay water-power development. 1 p.  
 Vol. CXXVI. No. 3287. Dec. 27, 1918.  
 1. 18,000,000 gallon reservoir at Winnipeg. 2½ p.  
 2. Labour administration. No. XIII. 2½ p.  
 3. British railways under war conditions. No. XIII. 2 p.  
 Vol. CXXVII. No. 3288. Jan. 3, 1919.  
 1. Locomotives of the year. 1 p. with 1 plate.  
 Vol. CXXVII. No. 3290. Jan. 17, 1919.  
 1. The Richborough transportation depot and train ferry terminus. No. II. 5½ p. with 2 plates.  
 2. A new bridge over the Tigris at Baghdad. ½ p.  
 Vol. CXXVII. No. 3291. Jan. 24, 1919.  
 1. British railways under war conditions. No. XV. 2½ p.  
 2. The Richborough transportation depot and train ferry terminus. No. III. 4 p. with 1 plate.  
 3. Proposed shape of screw thread. 1 p.

Vol. CXXVII. No. 3292. Jan. 31, 1919.

1. Electric welding. 1 p.
2. The Richborough transportation depot and train ferry terminus. No. IV. 3 p. with 1 plate.

### THE FAR EASTERN REVIEW

Vol. XV. No. 2. February, 1919.

1. The great trade artery of China. 6 p.
2. Description of ports. 149 p.

Vol. XV. No. 3. March, 1919.

1. Siberia. 25 p.

### THE RAILWAY ENGINEER

Vol. XL. No. 468. January, 1919.

1. Relation of weight of rail to axle load.  $\frac{3}{4}$  p.
2. Modern locomotive engine design and construction.—XLIV. 9 $\frac{3}{4}$  p.

### THE RAILWAY MAGAZINE

Vol. XLIII. No. 257. November, 1918.

1. Agricultural transport in the future. 7 p.

Vol. XLIV. No. 259. January, 1919.

1. The Mawddwy Railway. 6 p.
2. The Thames valley line. 7 p.

### TRANSACTIONS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS

Vol. LXXXII. December, 1918.

1. The Cape Cod Canal. 157 p.
2. Specifications and methods of tests for Portland cement. 19 p.
3. Pulsations in pipe lines, as shown by some recent tests. 65 p.
4. Air tanks on pipe lines. 28 p.
5. Construction problems of the Manhattan-Bronx, and Lexington Avenue subway junction and Queensborough Tunnel connections. 56 p.
6. Obstruction of bridge piers to the flow of water. 62 p.
7. The subsidence of muck and peat soils in Southern Louisiana and Florida. 37 p.
8. Modern practice in wood stave pipe design and suggestions for standard specifications. 82 p.
9. The three 15 cubic yard dipper-dredges, Gamboa, Paraiso, and Cascadas, as supplied and used on the Panama Canal. 36 p.
10. Manhattan elevated railway improvements. 202 p.
11. A brief review of trigonometrical mathematical tables, and a contemplation of the specifications for trigonometrical tables for general use. 14 p.
12. A phenomenal land slide—supplement. 35 p.

13. Hydraulic phenomena and the effect of spreading of flood water in the San Bernardino basin, Southern California. 50 p.
14. The Hell Gate arch bridge and approaches of the New York connecting railroad over the East River in New York City. 188 p.
15. Stress measurements on the Hell Gate arch bridge. 98 p.
16. Ice diversion, hydraulic models, and hydraulic similarity. 53 p.
17. Progress report of the special committee to report on stresses in railroad track. 193 p.
18. Final report of the special committee on materials for road construction and on standards for their test and use. 85 p.
19. The distribution of stresses in mitering lockgates, with special reference to the gates on the Panama Canal. 4 p.
20. Detention reservoirs with spillway outlets as an agency in flood control. 68 p.
21. Final report of the special committee on concrete and reinforced concrete. 36 p.
22. The activities of the American Society of Civil Engineers during the past twenty-five years. 76 p.

## WATER AND WATER ENGINEERING

Vol. XXI. No. 241. Jan. 20, 1919.

1. Income tax assessment of harbours and docks.  $3\frac{1}{2}$  p.
2. Water power in the British Empire.  $4\frac{1}{2}$  p.
3. Slips and subsidences.  $1\frac{1}{2}$  p.
4. The great artesian basin of Australia.  $1\frac{1}{2}$  p.