shington. Montana, and Idaho. Washington, D. C.: U. S. Geological Survey. 254 P., illustrated, 6×9, paper.

The properties and testing of optical instruments. Circular of the Bureau of Standards, issued Aug. 9, 1918. Washington, D. C.: Superintendent of Documents. 41 P., illustrated, 7×10, paper. Price: 10 cents.



# 内外諸雑誌主要題目

## 工學

第五卷. 第九號. (第五十三號) 大正七年九月十日.
1. 線路ノ切換. 4頁.
2. 灌漑用水源トシテ相模川ノ不定量測定. 6頁.
3. セメント使用工事ヲ經濟的ナラシムル火山灰或ハ硅藻土ノ混用ニ就テ. 7頁.

第五卷. 第十號. (第五十四號) 大正七年十月十日.
1. あすふぁると工事ニ就テ. 4½頁.
2. 漆瀬橋架設工事設計. 19頁.

第五卷. 第十一號. (第五十五號) 大正七年十一月十日.
1. 重量輕キこんくりーとノ製作ニ就テ. 4½頁.
2. 結構用木材ノ接合ニ就テ. 3頁.
3. 構桁ノ計算法ニ就テ. 6½頁.
4. 河川流量測定. (四). 7頁.
5. 拱ノ感應線ト圖式的研究. (六). 4½頁.

## 工學會誌

第四百二十卷. 大正七年九月二十五日.
1. 東京市ノ水利ト改善ニ對スル私見. 48頁.

第四百二十一卷. 大正七年十月二十日.
1. 都市ト建築問題. 11頁.
2. 岩石燥發ノ經濟的研究. 5頁.
3. 日本ノ水力. 10頁.

## 工業雜誌

第四十九卷. 第六百三十一號. 大正七年七月五日.
1. 海面ノ埋築. 5½頁.

第四十九卷. 第六百三十六號. 大正七年九月二十日.
1. 上州產鼓塚石丁場ノ近況. 5½頁.

第四十九卷. 第六百三十七號. 大正七年十月五日.
1. 木管鐵管ノ利害調查公表ヲ駁ス. 3½頁.

第四十九卷. 第六百三十八號. 大正七年十月二十日.
1. 列車ノ抵抗ニ就テ. 5頁.
第四十九卷. 第六百三十九號. 大正七年十一月五日.
1. 列車ノ抵抗ニ就テ. (承前). 16⅓頁.
2. 横濱山手海面埋立工事. 4⅓頁.

## 帝國鐵道協會會報

第十九卷. 第七號. 大正七年七月二十五日.
1. 支那ノ現狀ト鐵道ノ將來. 32頁.
2. 我國鐵道ト米國鐵道トノ比較. 12頁.
3. 本會建議ノ採擇. 20頁.
第十九卷. 第八號. 大正七年八月二十五日.
1. 米國鐵道雜話. 16頁.
2. 鐵道車輛ノ動搖ニ就テ. 20頁.
第十九卷. 第九號. 大正七年九月二十五日.
1. 西伯利ノ現狀特ニ鐵道ニ就テ. 20頁.
第十九卷. 第十號. 大正七年十月二十五日.
1. だーだねるす作戰トばくだっと鐵道ニ就テ. 32頁.
2. 鐵道國有實施後十箇年間ニ於ケル改良工事實蹟. 30頁.
3. 歐米鐵道視察報告書. 40頁.

## ANNALES DES PONTS ET CHAUSSÉES
### PARTIE TECHNIQUE

Tome XLII. Vol. I. Jan.—Fév., 1918.
1. Note sur l'arche d'essai de Melun en béton, à fermettes enrobées. 56 p.
Tome XLIII. Vol. II. Mar.—Avr., 1918.
1. Murs de quai Nord du môle Amiral Mouchez, à Alger. Mouvements pendant la construction. 23 p.
2. Note sur l'utilisation des réserves d'eau au point de vue de la production d'énergie. 25 p.
Tome XLIV. Vol. III. Mai—Juin, 1918.
1. Le réseau navigable de la Saône. 60 p.

## BULLETIN OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION

Vol. 20. No. 207. July, 1918.
1. Supplement to manual (Addenda to edition of 1915). 109 p.
2. Study of the mechanics of curve resistance. 6 p.
Vol. 20. No. 208. August, 1918.
1. Unit operation of railroad terminals in large cities. 29 p.
Vol. 20. No. 209. September, 1918.
1. Transverse fissure rails on Pennsylvania lines. 19 p.

2. Interior fissure rails on Baltimore & Ohio Railroad. 38 p.
3. Rail failure statistics for the year 1917. 28 p.
4. Transverse fissure rails on Delaware, Lackawanna & Western Railroad. 9 p.

## BULLETIN OF THE SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION

Vol. VIII. No. 9. May, 1918.
1. Reinforced concrete theory without the aid of formulas. 23 p.

## CANADIAN ENGINEER

Vol. 35. No. 3. July 18, 1918.
1. Effects of grading of sands and consistency of mix upon the strength of concrete. 4 p.
2. Recommended practice for concrete bridge construction. 4 p.
3. Concrete pavements. 3 p.
4. Earth pressures. 3 p.
5. Minneapolis City waterworks, department of purification. 4¼ p.

Vol. 35. No. 4. July 25, 1918.
1. Effect of time of mixing on the strength of concrete. 5 p.
2. Design of a Tilting Dam. 2¼ p.

Vol. 35. No. 5. Aug. 1, 1918.
1. Chemical and bacteriological examination of the London waters. 4½ p.
2. Effect of time of mixing on the strength of concrete. 13 p.

Vol. 35. No. 6. Aug. 8, 1918.
1. Canadian Pacific Railway viaducts at Toronto. 2 p.
2. Effect of time of mixing on the strength of concrete. 3 p.
3. Some tests on the effect of age and condition of storage on the compressive strength of concrete. 2½ p.

Vol. 35. No. 7. Aug. 15, 1918.
1. English and Canadian concrete regulations. 4½ p.

Vol. 35. No. 8. Aug. 22, 1918.
1. Relation of stone aggregate content to the compressive strength of concrete. 1¼ p.

Vol. 35. No. 9. Aug. 29, 1918.
1. Engineering possibilities of circular housing plan. 3¾ p.

Vol. 35. No. 10. Sept. 5, 1918.
1. Canada protests against weir in St. Lawrence. 2¼ p.

Vol. 35. No. 11. Sept. 12, 1918.
1. Waterworks at St. Thomas, Ont. 2 p.

Vol. 35. No. 12. Sept. 19, 1918.
1. Problems in city surveying. 5 p.
2. City planning for small municipalities. 1 p.

Vol. 35. No. 13. Sept 26, 1918.
1. Reinforced concrete in harbor works. 8 p.

Vol. 35. No. 14. Oct. 3, 1918.
1. Main drainage and its relation to river and harbor front improvements. 5½ p.
2. Western ports of Canada. 3½ p.

## CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. XIII. No. 7. July, 1918.
1. Reinforced concrete regulations, Sydney, N. S. W. 8 p.
2. Reinforced concrete silos. 6 p.

Vol. XIII. No. 8. August, 1918.
1. Concrete work at the Vamma power station, Norway. 8½ p.
2. Detail design in reinforced concrete (VI). 7 p.
3. Some extraordinary results obtained by proportioning water in concrete tests. 3½ p.
4. Concrete in sea water. 8½ p.

Vol. XIII. No. 9. September, 1918.
1. The new premises of the Nathan Manufacturing Co., flushing, Long Island. 6 p.
2. The correct proportioning of concrete. 6 p.
3. Concrete bridge in Italy on the river Adda at Brivis. 5 p.
4. Concrete in sea water (IV.) 9 p.
5. A new concrete cottage construction. 4 p.

## ELECTRIC RAILWAY JOURNAL

Vol. 52. No. 4. July 27, 1918.
1. Railway construction on Detroit-Superior Bridge. 3 p.

Vol. 52. No. 6. Aug. 10, 1918.
1. Quick service between Buffalo and Niagara falls. 4 p.

Vol. 52. No. 7. Aug. 17, 1918.
1. Applying common-sense in line construction. 4¾ p.

Vol. 52. No. 8. Aug. 24, 1918.
1. N. & w. electrification helping directly to win the war. 4 p.

Vol. 52. No. 9. Aug. 31, 1918.
1. Snow fighting on Montreal tramways. 2½ p.

Vol. 52. No. 10. Sept. 7, 1918.
1. Railways facing a crisis. 2 p.

Vol. 52. No. 12. Sept. 21, 1918.
1. Some practical points in pole and tower erection and support. 4½ p.
2. Subsoil and its important relation to track construction. 3¾ p.

Vol. 52. No. 13. Sept. 28, 1918.
1. Section III.—British tramways seriously affected by the war. 8 p.
2. The disabled soldier in electric railway service. 4 p.

Vol. 52. No. 14. Oct. 5, 1918.
1. Heavy electric traction on the Central Argentine. 5¼ p.

## ENGINEERING

Vol. CVI. No. 2741. July 12, 1918.
1. Defects in steel ingots. 3½ p.

Vol. CVI. No. 2743. July 26, 1918.
1. The effect of cold-working on the elastic properties of steel. 7 p.

Vol. CVI. No. 2745. Aug. 9, 1918.
1. The strength of rotating disc. 3½ p.

Vol. CVI. No. 2746. Aug. 16, 1918.
1. Conveyor at the Wellpark brewery Glasgow. 2½ p.
2. Connecting subway tunnel tubes in Quicksand. 2 p.

Vol. CVI. No. 2748. Aug. 30, 1918.
1. The formation of graphite in the iron-carbon series of alloys. 2 p.
2. The National Physical Laboratory in 1917–18. 2½ p.

Vol. CVI. No. 2749. Sept. 6, 1918.
1. British roads. ½ p.

Vol. CVI. No. 2750. Sept. 13, 1918.
1. The new Quebec Bridge. 5⅛ p. with 4 plates.

Vol. CVI. No. 2751. Sept. 20, 1918.
1. The storage of petroleum. 3 p.
2. Influence of hot-deformation on the qualities of steel. 4⅛ p.

Vol. CVI. No. 2752. Sept. 27, 1918.
1. The industrial breakdown in Russia. 1½ p.
2. Wind pressure on tall chimneys. 2⅓ p.

## ENGINEERING AND CEMENT WORLD

Vol. 13. No. 1. July 1, 1918.
1. Feats of engineering and construction—Interesting dam and pipe work. 2 p.

Vol. 13. No. 2. July 15, 1918.
1. Concrete snowsheds on railways. 5 p.
2. How to get the best surface on a concrete road. 3 p.

Vol. 13. No. 3. Aug. 1, 1918.
1. Lindsay-Strathmore irrigation project. 5 p.
2. New Portland municipal elevator. 4 p.
3. Construction of concrete pavements. 2⅓ p.

Vol. 13. No. 4. Aug. 15, 1918.
1. Franklin-Orleans bridge, Chicago. 3 p.
2. Standard practice in concrete culvert construction. 2 p.
3. Cement joints for gas mains. 3 p.

Vol. 13. No. 5. Sept. 1, 1918.
1. Reinforced concrete coal storage plant. 3 p.
2. Government permanent depot warehouse in Chicago. 6 p.
3. Concrete arch bridge on reverse curve, Manayunk, Pa. 3 p.
4. Hydroelectric development in Iron Mountain region. 2 p.

Vol. 13. No. 6. Sept. 15, 1918.
1. Standard practice in concrete bridge construction. 6 p.
2. Supporting power of concrete pedestal piles. 3 p.
3. Surface area method of proportioning mortars and cements. 3½ p.
4. Interesting development in the use of the cement gun. 1 p.

Vol. 13. No. 7. Oct. 1, 1918.
1. Bridge construction plant—Features of arch bridge, Des Moines, Ia. 2½ p.
2. New hydroelectric plant of Montana Power Company. 4½ p.
3. Concrete coal bins prove profitable. 1½ p.
4. Calaveras Dam slide—Report of government experts. 2¾ p.

Vol. 13. No. 8. Oct. 15, 1918.
1. Construction features of the St. Paul Union Depot. 2½ p.
2. Hydrated lime in concrete roads. 1¾ p.

## ENGINEERING NEWS-RECORD

Vol. 81. No. 6. Aug. 8, 1918.

1. Concrete caisson of new type used in breakwater. 2⅛ p.
2. Keeping land drainage channels clear of growth and debris in the south. 4 p.
3. Concrete barges designed for New York State Canal. 2 p.

Vol. 81. No. 8. Aug. 22, 1918.

1. Roads in base section of American forces require widening and resurfacing. 4½ p.
2. Long span concrete beams should have fixed ends. 2⅓ p.

Vol. 81. No. 9. Aug. 29, 1918.

1. Nelson River crossed by Hudson Bay Railway on large continuous-truss bridge. 5 p.
2. Weighing concrete materials saved cement on three big dams. 3½ p.
3. Bridge at Lyons named in honor of President Wilson. 2 p.
4. American build sewer and water systems for three Uruguayan cities. 4 p.

Vol. 81. No. 10. Sept. 5, 1918.

1. American Army's water-works projects in France number about four hundred. 3½ p.
2. New division terminals built to meet labor law. 1½ p.
3. Computing the lateral pressure of saturated earth. 1½ p.
4. Build permanent pavements at new Aëronautical station. 2¾ p.
5. Determining the regulating effect of a storage reservoir. 2½ p.
6. Army motor trucks carry water purification plant. 2½ p.

Vol. 81. No. 11. Sept. 12, 1918.

1. Army intermediate depot in France problem in getting labor and supplies. 5¾ p.
2. Drop shafts sunk through buried tree-trunks by dredging. 3 p.
3. Sixty-one-foot hydraulic-fill dam rests on earth foundation. 4 p.
4. Construction methods used on the junction dam. 2½ p.
5. June floods cause damage to Iowa bridges. 2 p.

Vol. 81. No. 12. Sept. 19, 1918.

1. Boston army supply base will be valuable permanent port terminal. 4⅓ p.
2. Proper radius at intersection of highways. 2 p.
3. War problems of water-works practically discussed. 1 p.
4. Labor shortage made good by station contract system. 2½ p.

Vol. 81. No. 14. Oct. 3, 1918.

1. Altering old office building requires heavy underpinning. 3½ p.
2. Road culvert checks destructive stormwater flow. 1½ p.
3. Urges study of unit operation of railroad terminals in large cities. 4½ p.
4. Guatemala earthquakes destroyed all masonry buildings. 3½ p.
5. First unit of improved means of sewage disposal for Philadelphia well started. 4 p.
6. Taking sounding above Niagara Falls from the shore. 3 p.

Vol. 81. No. 15. Oct. 10, 1918.

1. Fourth successive hydro-electric plant nears completion at Rumford, Maine. 4 p.
2. Built filters for fighters in France from odds and ends.
3. Engineering colleges teach fighting mechanics for army. 3½ p.
4. Concrete floors combine steel and concrete frame. 1⅓ p.
5. Machines dress railroad ties before treatment. 1¾ p.

## INDIAN ENGINEERING

Vol. LXIII. No. 20. May 18, 1918.
1. The Harahan Bridge. 3 p.

Vol. LXIII. No. 21. May 25, 1918.
1. Drainage problems of the East. 1¼ p.
2. Puri Waterworks. 3 p.
3. Hydro-electric development. 2½ p.

Vol. LXIII. No. 22. June 1, 1918.
1. On the stiffness and relative strength of rails. ½ p. with 3 plates.
2. The setting of cements. ⅝ p.

Vol. LXIII. No. 23. June 8, 1918.
1. Resilient chairs and ferro-concrete sleepers. 2 p.

Vol. LXIII. No. 24. June 15, 1918.
1. The Sukkur irrigation project. I. 1½ p.
2. The treatment of timber. 1½ p.

Vol. LXIII. No. 25. June 22, 1918.
1. Survey of India, 1916–17. 1 p.
2. The Sukkur irrigation project. II. 1¼ p.

Vol. LXIII. No. 26. June 29, 1918.
1. The economics of steel arch bridges. 3 p.
2. The Sukkur irrigation project. III. 1¼ p.
3. British railways under war control. 1½ p.
4. Irrigation, N. W. Frontier province, 1916–17. 1 p.

Vol. LXIV. No. 1. July 6, 1918.
1. Greater Calcutta. 1¾ p. with 1 map.
2. The economics of steel arch bridges. 2 p.

Vol. LXIV. No. 2. July 13. 1918.
1. Welding systems. 2½ p.
2. The economics of steel arch bridges. 2 p.

Vol. LXIV. No. 3. July 20, 1918.
1. The economics of steel arch bridges. 2 p.

Vol. LXIV. No. 4. July 27, 1918.
1. Town planning. 1 p.
2. Bascule bridge at Deering. 2 p.

## INDUSTRIAL MANAGEMENT

Vol. LVI. No. 3. September, 1918.
1. How to determine the cost of living in an industrial community. 7 p.
2. Coal storage in large quantities. 8 p.

## JOURNAL OF THE AMERICAN WATER WORKS ASSOCIATION

Vol. 5. No. 2. June, 1918.
1. The Catskill water supply system. 9 p.
2. The Water works at Camp Grant. 10 p.
3. Methods of determining and plotting meter capacities and some results. 12 p.

Vol. 5. No. 3. September, 1918.

1. The practicability of adopting standards of quality for water supply. 31 p.
2. Loss of head in corporation cocks and service pipes. 10 p. with 3 diagrams.
3. History of the artesian water supply at Savannah, Georgia. 11 p.
4. Water waste elimination. Methods and results at Oak Park, Ill. 9 p.
5. Some aspects of chemical treatment at St. Louis Water Works. 9 p.

## JOURNAL OF THE NEW ENGLAND WATER WORKS ASSOCIATION

Vol. 32. No. 2. June, 1918.

1. Steam pumping engines. 12 p.
2. Thawing out frozen services. 12.

## JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

Vol. XXIII. No. 2. February, 1918.

1. Analysis of the traffic count in Downtown Chicago. 91 p.

Vol. XXIII. No. 3. March, 1918.

1. Snow removal. 16½ p.
2. Progress in the application of concrete to barge and ship building. 15½ p.

Vol. XXIII. No. 4. April, 1918.

1. How American industry can meet world competition after the war. 30 p.
2. The storage of bituminous coal. 36 p.
3. What the war means to the engineer. 11 p.

## LA HOUILLE BLANCHE

17e Année. No. 19-20. Juillet-Août 1918.

1. Le rôle d'une Société d'études dans l'Aménagement du Rhône. 7¼ p.

## LE GÉNIE CIVIL

Tome LXXIII. No. 1. 6 Juillet 1918.

1. Les pieux en béton armé. Observations sur leur emploi aux Pays-Bas. 2¼ p.

Tome LXXIII. No. 2. 13 Juillet 1918.

1. Le pont Wilson, sur le Rhône, à Lyon. 8 p.

Tome LXXIII. No. 3. 20 Juillet 1918.

1. Pouvoir porteur et flambage des pieux de fondation. p.

Tome LXXIII. No. 9. 31 Août 1918.

1. Le pont à travées continues de Sciotoville. 4 p.

Tome LXXIII. No. 10. 7 Sept., 1918.

1. Les ports francais et la guerre. Dakar. 3⅜ p.

Tome LXXIII. No. 11. 14 Sept., 1918.

1. Grue locomotive de 35 tonnes, système Stothert et Pitt. 2¼ p.

2. Calcul des arcs encastrés sollicités par des charges extérieures continues. 2 p.

Tome LXXIII. No. 12. 21 Sept., 1918.

1. Aménagement de chutes d'eau dans les Pyrénées pour la traction electrique des Chemins de fer du Midi. 6 p.
2. Les appareils de levage dans les chantiers americains de constructions navales. 1½ p.

Tome LXXIII. No. 13. 28 Sept., 1918.

1. Le sauvetage des navires coulés. 4 p.
2. Aménagement de chutes d'eau dans les Pyrénées pour la traction électrique des Chemins de fer du Midi. 2 p.



## MUNICIPAL JOURNAL

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

1. Reconstruction of spokane incinerator plant. 2¼ p.
2. The designing of concrete pavements. 2 p.

Vol. XLIV. No. 3. Jan. 19, 1918.

1. Snow removal in Rochester. 3 p.

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

1. Improving sanitary conditions at Leavenworth. 4 p.

Vol. XLIV. No. 5. Feb. 2, 1918.

1. Paving work in St. Louis. 3 p.

Vol. XLIV. No. 6. Feb. 9, 1918.

1. 100,000 tons of coal wasted by Chicago. 4 p.

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

1. Paving done during the year 1917. 16 p.

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

1. Service strength of sewer pipe. 2½ p.

Vol. XLIV. No. 9. Mar. 2, 1918.

1. St. Louis' new concrete water conduit. 3 p.
2. Service strength of sewer pipe. 2 p.

Vol. XLIV. No. 10. Mar. 9, 1918.

1. Maintaining reservoirs in tropical countries. 3 p.
2. New features in bituminous pavement practice. 2½ p.

Vol. XLIV. No. 12. Mar. 23, 1918.

1. Chlorination at San Diego. 1½ p.
2. Sewage pollution of Boston Harbour. 2 p.

Vol. XLIV. No. 13. Mar. 30, 1918.

1. Operation of sewage works in Iowa. 3 p.

Vol. XLIV. No. 14. Apr. 6, 1918.

1. Corrosion of service pipes. 2 p.
2. Operation of sewage works in Iowa. 4 p.

Vol. XLIV. No. 15. Apr. 13, 1918.

1. Water purification in the canal zone. 2 p.
2. Operation of sewage works in Iowa. 3 p.

Vol. XLIV. No. 16. Apr. 20, 1918.

1. County highway work performed during 1917. 8 p.
2. Traffic laws and highways. 2 p.
3. Principles of road construction. 3 p.

Vol. XLIV. No. 17. Apr. 27, 1918.

1. Grade crossing elimination at Passaic. 3½ p.

Vol. XLIV. No. 19. May 11, 1918.
1. Municipal dam at Fort Dodge. 2 p.
2. Water works operation. 4 p.

Vol. XLIV. No. 20. May 18, 1918.
1. Sewer pipe joints. 2 p.
2. Water works operation—Distribution system. 3 p.

Vol. XLIV. No. 21. May 25, 1918.
1. Water works of Colorado springs. 2 p.
2. Sewer pipe joints. 2 p.
3. Cleveland's sewerage system. 2 p.

Vol. XLIV. No. 22. June 1, 1918.
1. Use of tar on highways. 4 p.
2. Water works operation. 3 p.

Vol. XLIV. No. 23. June 8, 1918.
1. Water softening at Daytona, Fla. 3½ p.
2. Water works operation. 2 p.

Vol. XLIV. No. 24. June 15, 1918.
1. Water works parks in Fort Wayne. 2 p.
2. The diffusion of sewage. 2 p.
3. Water works operation. 3 p.

Vol. XLIV. No. 25. June 22, 1918.
1. Xenia's sewage treatment plant. 1½ p.
2. Water works operation. 3 p.

Vol. XLIV. No. 26. June 29, 1918.
1. City planning for Davenport. 3 p.
2. Water works operation. 2 p.

Vol. XLV. No. 1. July 6, 1918.
1. The Los Angeles new outfall sewer. 2 p.
2. Water works operation. 4 p.

Vol. XLV. No. 2. July 13, 1918.
1. Sewage treatment in Sedalia. 2¼ p.
2. Water works operation. 3½ p.

Vol. XLV. No. 3. July 20, 1918.
1. Water works operation. 3 p.

Vol. XLV. No. 5. Aug. 3, 1918.
1. Water works operation. 2¼ p.

Vol. XLV. No. 6. Aug. 10, 1918.
1. Force account paving. 2 p.
2. Importance of diameter of deep wells. 2 p.
3. Water works operation. 1½ p.

Vol. XLV. No. 7. Aug. 17, 1918.
1. Asphalt resurfacing in Los Angeles. 3 p.
2. Cleaning streets and removing garbage. 2¼ p.

Vol. XLV. No. 10. Sept. 7, 1918.
1. Handling material on Michigan road job. 2 p.
2. Contracts under war conditions. 2 p.

Vol. XLV. No. 11. Sept. 14, 1918.
1. Catch-basin cleaning in Chicago. 2 p.

Vol. XIV. No. 13. Sept. 28, 1918.
1. Road construction at an aviation field. 3 p.
2. Water works operation. 2¼ p.
3. Grills for shade trees. 1 p.

Vol. XLV. No. 14. Oct. 5, 1918.
1. Water service by waste collection. 4 p.
2. Water works operation. 2 p.
3. Concrete machinery on the William Penn highway. 1 p.
4. Public utilities and housing projects. 1½ p.

## PROFESSIONAL MEMOIRS

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

Vol. X. No. 52. July—August, 1918.
1. Construction of concrete dam in Hudson River at Troy. 18 p.

Vol. X. No. 53. Sept.—Oct., 1918.
1. Construction of concrete lock in Hudson River at Troy, N. Y., 1916, in charge of Col. W. M. Black, Corps of Engineers. 36 p.
2. Oxy-acetylene welding. 11 p.

## RAILWAY AGE

Vol. 65. No. 4. July 26, 1918.
1. Illinois Central rebuild early track elevation. 5 p.
2. A 100-car test of the automatic straight air brake. 4 p.

Vol. 65. No. 5. Aug. 2, 1918.
1. Pennsylvania completes freight house at Chicago. 4 p.

Vol. 65. No. 6. Aug. 9, 1918.
1. Interesting reconstruction work on the Erie. 4 p.

Vol. 65. No. 7. Aug. 16, 1918.
1. The serious condition of the railways in Mexico. 2½ p.

Vol. 65. No. 8. Aug. 23, 1918.
1. The Alleghany region—Operating conditions. 3½ p.
2. New bridge on the B. & L. E. a notable structure. 7 p.

Vol. 65. No. 9. Aug. 30, 1918.
1. I. C. C. report on valuation of Midland. 5 p.
2. Brooklyn rapid transit. 1¼ p.

Vol. 65. No. 11. Sept. 13, 1918.
1. Railway Executives' Advisory Committee report. 3 p.
2. Strengthening Poughkeepsie bridge superstructure. 3½ p.
3. N. W. region; a group of well-managed roads. 2½ p.

Vol. 65. No. 12. Sept. 20, 1918.
1. The Roadmasters' 36th annual Convention. 5 p.

Vol. 65. No. 14. Oct. 4, 1918.
1. A new design for engine coaling facilities. 2 p.
2. Doings of the United States railroad administration. 6 p.

## RAILWAY GAZETTE

Vol. XXIX. No. 2. July 12, 1918.

1. Oregon-Washington Railroad & Navigation Company's Portland Bridge. 5 p.

Vol. XXIX. No. 3. July 19, 1918.
1. Concrete on railways. 3 p.
2. Electrification of New York connecting railway. 4 p.

Vol. XXIX. No. 5. Aug. 2, 1918.
1. An example of modern coaling station construction. 1½ p.

Vol. XXIX. No. 7. Aug. 16, 1918.
1. Indian railways permanent way. 3 p.
2. Colwick gravitation yards, Great Northern Railway. 3½ p. with 1 plate.
3. Unusual failure of a railway draw bridge. 1½ p.

Vol. XXIX. No. 9. Aug. 30, 1918.
1. Train operation by signal indication on the Erie Railroad. 4¾ p.

Vol. XXIX. No. 10. Sept. 6, 1918.
1. The mechanical handling of goods. 3¾ p.
2. The Green-Moore patent resilient reinforced concrete sleepers. 3 p.

Vol. XXIX. No. 12. Sept. 20, 1918.
1. The Pennsylvania new goods depôt at Chicago. 4 p.

Vol. XXIX. No. 13. Sept. 27, 1918.
1. Rapid construction of railway buildings. 1 p.
2. The Uganda Railway and the war in British East Africa. 7 p.
3. Sanitation work on the Illinois Central Railway. 1¾ p.

## RAILWAY MAINTENANCE ENGINEER

Vol. 14. No. 8. August, 1918.
1. How to get the maximum service out of tools. 4½ p.
2. A novel problem in pile driving. 1 p.
3. Specifications for tie plates and bearing metals. 1½ p.
4. Is it practical to use released ties as fuel.? 3 p.
5. Standard specifications for cross ties. 1½

Vol. 14. No. 9. September, 1918.
1. Maintaining a railroad above the clouds. 5 p.
2. Increasing the capacity of a water softener. 1¼ p.

Vol. 14. No. 10. October, 1918.
1. Concrete water tanks for railroad use. 1½ p.

## RAILWAY REVIEW

Vol. 63. No. 3. July 20, 1918.
1. Relative resistance of various hardwood to injection with creosote. 8 p.

Vol. 63. No. 4. July 27, 1918.
1. Rebuilding the C. B. & Q. R. R. Bridge over the Platte River, near Grand Island. 3½ p.

Vol. 63. No. 5. Aug. 3, 1918.
1. Labor-saving devices for track maintenance. 4 p.

Vol. 63. No. 7. Aug. 17, 1918.
1. Trussed turntables, C. B. & Q. R. R, 1½ p.
2. Summary of railroad conditions in Mexico. 4 p.

Vol. 63. No. 9. Aug. 31, 1918.
1. Transverse rail fissues and the derailment at Juniper, Ga. 3 p.

Vol. 63. No. 12. Sept. 21, 1918.
1. The roadmasters' Convention. 1½ p.
Vol. 63. No. 13. Sept. 28, 1918.
1. Unit operation of railroad terminals. 3¼ p.
2. New shop of standard steel car company. 2½ p.
Vol. 14. No. 14. Oct. 5, 1918.
1. Railroad construction progress in Alaska. 3 p.
2. Operating methods of transfer railroads. 4 p.
3. Present aspect of the tie situation. 1¼ p.
4. Common defects in rail. 2½ p.
5. Effect of war on railroad securities. 3 p.
Vol. 63. No. 15. Oct. 12, 1918.
1. The mechanics of curved resistance. 4 p.
2. Railroad construction progress in Alaska. 2 p.

## SCHWEIZERISCHE BAUZEITUNG

Band LXXI. Nr. 26. 29. Juni 1918.
1. Schiffe aus Eisenbeton. 2 p.
Band LXXII. Nr. 1. 6. Juli 1918.
1. Wettbewerb für eine Brücke über die Reuss bei Gisikon. 4 p.
Band LXXII. Nr. 2. 13. Juli 1918.
1. Wettbewerb für eine Brücke über die Reuss bei Gisikon. 3 p.
Band LXXII. Nr. 4. 27 Juli 1918.
1. Haltbarkeit der Uferbauten in Bezug auf die Schleppkraft des fliessenden Wassers. 3½ p.
Band LXXII. Nr. 5. 3 Aug. 1918.
1. Grundwasser-Speicheranlagen. 1½ p.
2. Die Grundwasser-Vorkommnisse in der Schweiz. 2 p.
Band LXXII. Nr. 6. 10. Aug. 1918.
1. Grundwasser-Speicheranlagen. 2½ p.
Band LXXII. Nr. 7. 17. Aug. 1918.
1. Zur Frage der Knikkungsbiegung elastisch eingespannter Stäbe. 2½ p.
Band LXXII. Nr. 8. 24. Aug., 1918.
1. Vom Elektrizitätswerk Mühleberg. 3 p.
Band LXXII. Nr. 10. 7. Sept., 1918.
1. Tunnelverbindung unter dem Aermelkanal. 2½ p.
Band LXXII. Nr. 12. 21. Sept., 1918.
1. Die Berechnung des durchlaufenden Brückengewölbes auf elastischen Pfeilern. 4½ p.
Band LXXII. Nr. 13. 28. Sept., 1918.
1. Die Berechnung des durchlaufenden Brückengewölbes auf elastischen Pfeilern. 2¼ p.



## SCIENTIFIC AMERICAN SUPPLEMENT

Vol. LXXVI. No. 2227. Sept. 7, 1918.
1. The grain of wood.—With reference to direction of fibre. 2 p.
Vol. LXXVI. No. 2229. Sept. 21, 1918.
1. An optical method for accurately dividing a circle into degrees. 1 p.

## THE ENGINEER

Vol. CXXVI. No. 3263. July 12, 1918.
1. Electric plant at a Canadian smelting works. 2½ p.
Vol. CXXVI. No. 3264. July 19, 1918.
1. The New York State barge canal. No. I. 3 p.
Vol. CXXVI. No. 3265. July 26, 1918.
1. A new shipyard on the North-East coast. 2 p.
2. Bridge across the river Vistula at Warsaw. 2 p.
Vol. CXXVI. No. 3266. Aug. 2, 1918.
1. The New York State barge canal. No. II. 3 p.
2. Portable pneumatic grain unloading plant. 2 p.
Vol. CXXVI. No. 3267. Aug. 9, 1918.
1. The water supply of New York. No. I. 2⅛ p.
Vol. CXXVI. No. 3268. Aug. 16, 1918.
1. The water supply of New York. No. II. 2 p.
Vol. CXXVI. No. 3271. Sept. 6, 1918.
1. Hobart water supply. ½ p.
Vol. CXXVI. No. 3272. Sept. 13, 1918.
1. Engineering markets of the Near East. 1½ p.
2. British railways under war conditions. No. I. 1½ p.
Vol. CXXVI. No. 3273. Sept. 20, 1918.
1. British railways under war conditions. No. II. 1 p.

## THE FAR EASTERN REVIEW

Vol. XIV. No. 9. September, 1918.
1. Can Shanghai become a world harbor? 3 p.
Vol. XIV. No. 10. October, 1918.
1. Philippines railways in 1917. 2 p.

## THE INDIAN AND EASTERN ENGINEER

Vol. XLII. No. 5. May, 1918.
1. A great Mysore irrigation project. 2 p.
Vol. XLII. No. 6. June, 1918.
1. Hydro-electric power in Mysore. 2 p.
Vol. XLIII. No. 1. July, 1918.
1. Restoration bridges on the Assam-Bengal Railway. 4 p.
Vol. XLIII. No. 2. August, 1918.
1. Excavating machinery. 4½ p.
Vol. XLIII. No. 3. September, 1918.
1. Excavating machinery. 2½ p.
Vol. XLIII. No. 4. October, 1918.
1. Hydro-electric schemes in Mysore State. 3 p.
2. Engineering work in China. 2 p.

## THE JOURNAL OF THE ENGINEER'S CLUB OF PHILADELPHIA

Vol. XXXV-9. No. 166. September, 1918.

1. Nomenclature for electric welding. 7½ p.

Vol. XXXV-10. No. 167. October, 1918.
1. Time saving in steel ship construction. 5 p.
2. The covered-electrode process. 7½ p.



## THE JOURNAL OF THE INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Vol. XLIV. No. 11. April, 1918.
1. Report by Royal Commission on housing, in so far as it relates to the departmental functions and status of municipal engineers. 8½ p.
2. Road construction in a town planning area. 13 p.

Vol. XLIV. No. 12. April, 1918.
1. Town planning progress in Scotland. 10 p.

Vol. XLIV. No. 13. May, 1918.
1. Some notes on the growth and municipal works of leicester during the last 28 years. 14 p.

Vol. XLIV. No. 16. June, 1918.
1. Standardisation as applied to after-war housing. 14½ p.
2. Town planning and densities. 12 p.

Vol. XLV. No. 1. July, 1918.
1. The growth of London. 17 p.

## THE RAILWAY ENGINEER

Vol. XXXIX. No. 464. September, 1918.
1. Proposed longitudinal railway for Northern Peru. ½ p.
2. Recent patents relating to railways. 2½ p.

## THE RAILWAY MAGAZINE

Vol. XLII. No. 252. June, 1918.
1. Practical railway working. 8 p.
2. Caledonian Railway change in goods managership. 10 p.

Vol. XLIII. No. 254. August, 1918.
1. Railway uses for reinforced concrete. 6 p.
2. Highest mountain railway. 3 p.

Vol. XLIII. No. 255. Sept., 1918.
I. Some West Country gradients. 6 p.

Vol. XLIII. No. 256. Oct., 1918.
1. The literature of the iron road. 7 p.

## WATER AND WATER ENGINEERING



Vol. XX. No. 235. July 20, 1918.
1. Development of canals and inland waterways. 3 p.

Vol. XX. No. 236. August 20, 1918.
1. Water power in India. 3¼ p.
2. Reclamation and drainage. 3 p.

Vol. XX. No. 237. September, 20, 1918.
1. Flow in "non-silting" channels. 4 p.
2. Historic failures of masonry structures. 5 p.