

## 新刊紹介

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土木學會誌 第五卷第三號 大正八年六月

- Collier, B. C.—The cement gun: Its application and uses. Allentown, Penn. Cement Gun Co. 21 p., illustrated, 6×9, paper.
- Collins, C. D.—Drafting-room method.—Standards and forms. 149 p., illustrated, 6×9, cloth. D. Van Nostrand Co., New York. Price \$ 2.00.
- Dozal, P. J.—Retaining walls. 155 p., illustrated, 7×10, cloth.
- Fuller, C. E. & Johnston, W. A.—Applied mechanics. Vol. II, Strength of materials. 556 p., illustrated, 6×9, cloth. John Wiley & Sons, New York. Price: \$ 3.75 net, postpaid.
- Gesteschi—Der wirtschaftliche Wettbewerb von Eisen und Eisenbeton im Brückenbau. Mit 24 Abbildungen, 30 Zahlentafeln im Text und 4 Tafeln im Anhang. Wilh. Ernst & Sohn, Berlin. Price: geh. 8 M., geb. M. 9.50.
- Gleichen, A.—The theory of modern optical instruments. Translated from the German by H. H. Emsley and W. Swaine, with an appendix on "Rangefinders." Published for the Department of Scientific and Industrial Research by His Majesty's Stationary-Office, London. Price: 12 s. 6 d. net.
- James, E. W.—Drainage methods and foundations for county roads. Washington, D. C.: U. S. Department of Agriculture. Bulletin No. 724. 86 p., illustrated, 6×9, paper. Price: 20 c. from superintendent of documents.
- Kinnicutt, L. P. & Pratt, R. W.—Sewage disposal. Second edition, rewritten. 547 p., illustrated, 6×9, cloth. John Wiley and Sons, New York. Price: 4.00.
- Pawlowski, M. A.—Annuaire de la Houille blanche française 1918—1919. Un volume in—4° de 174 pages. En vente à la Revue générale de l'Électricité, 12, place de Laborbe, Paris. Prix: 12 francs.
- Peele, R.—Compressed air plant; The production, transmission and use of compressed air, with special reference to mine service. 485 p., illustrated, 6×9, cloth. John Wiley & Sons, New York. Price: \$ 4.25.
- Pernot, F. E. & Woods, B. M.—Logarithms of hyperbolic functions to twelve significant figures. 170 p., 7×10, paper. Berkeley, Cal.: University of California.
- Race, J.—Chlorination of water. 158 p., illustrated, 6×9, cloth. John Wiley & Sons, New York.
- Saitzew, M.—Die Kosten der Wasserkraft und ihre Abhängigkeit von der Höhe des Arbeitslohnes. Rascher & Cie, Zürich. Price: geh. Fr. 4.50.
- Sales, H. S.—Note on various types of extensometers for testing bridge girders. 16 p., illustrated, 8×13, paper. Simla, India: Railway Board of India.
- Sprague, E. H.—Moving loads by influence lines and other methods. Scott, Greenwood and Son. Price: 5 s. net.
- Wegmann, E.—Conveyance and distribution of water for water supply: Aqueducts, pipe-lines and distributing systems. 663 p., illustrated, 6×9, cloth. D. Van Nostrand Co. New York. Price: \$ 5.00.
- Wilcox, D. F.—The regulation of private water companies in New York City. 24 p., 6×9, paper. New York: The author.
- Wilson, C. D. D.—Report on the best process and plant for treating railway sleepers. Simla, India: Railway Board of India. 12 p., illustrated, 8×13, paper.

Withey, M. O.—Johnson's material of construction. Fifth edition. John Wiley & Sons, New York. 329 p., illustrated, 6×9, cloth. Price: \$6.00.

Journal of the Boston Society of Civil Engineers: Proceedings, Nov., 1918. 35 p., illustrated, 6×9, paper. Price: 50 c.

Mnemonic notation for engineering formulae: Report of the Science Committee of the Concrete Institute; with explanatory notes by E. Fiander Etchells. 116 p., illustrated, 6×9, cloth. Spon & Chamberlain, New York. Price: \$2.50.

Problem of street cleaning, Rochester, N. Y.: Report submitted to the Mayor and to the Commissioner of Public Works. Rochester, N. Y. 133 p., illustrated, 6×9, paper. Rochester Bureau of Municipal Research, Inc.

Special water power investigation, State of Maine, 1918. Augusta, Me.: Public Utilities Commission. 420 p., illustrated, 6×9, paper.

## 内外諸雜誌主要題目

### 發電水力

第四十九號. 大正八年三月十五日.

1. 製鐵事業ノ獨立ト發電水力. 1頁.
2. 水火力ノ經濟的併用. 1頁.
3. 水化石灰ト鐵筋混凝土. 2頁.

第五十號. 大正八年四月十五日.

1. 北滿ニ於ケル電氣事業. 3頁.
2. 英國ノ水力利用. 4頁.
3. 水力電氣ノ國防上價值. 1頁.
4. 水力ノ利用. 1頁.

### 工 學

第六卷. 第四號(第六十號). 大正八年四月十日.

1. 支那ノ土木事業. 4頁.
2. 貯水池堰堤暗渠漏水ニ就テノ補強工事. 3頁.
3. 河川ノ流量曲線ト其解法. (三). 5頁.
4. 列車走行ニ於ケル抵抗及ビ其影響. (四). 10頁.
5. 靜定結構ノ撓度ヲ求ムル諸法. (四) 9頁.
6. 高壓ニ對シテ設計サレタル混凝土管水密接合法. 2頁.

第六卷. 第五號(第六十一號). 大正八年五月十日.

1. どこーびーる使用工事ニ就テ. 9頁.
2. 木工沈床ニ就テ. 附靜岡縣大井川ニ設置セル木工沈床ノ成績. 5頁.
3. 河川ノ流量曲線ト其解法. (四). 7頁.
4. 河川流量測定. (六). 8½頁.
5. 鐵筋混凝土拱橋設計々算例. (三) 8頁.
6. 靜定結構ノ撓度ヲ求ムル諸法. (五). 8頁.

## 工學會誌

第四百二十六卷. 大正八年三月三十一日.

1. 第十五回上水協議會概況. 16頁.

第四百二十七卷. 大正八年四月三十日.

1. 鐵及鋼ノ研究. 18頁.

## 工業雜誌

第五拾卷. 第六百四十八號. 大正八年三月二十日.

1. 鐵道分業政策論. 5頁.

第五拾卷. 第六百五十號. 大正八年四月二十日.

1. 我國ノ技術家諸士ニ告グ. 8頁.

第五拾卷. 第六百五十一號. 大正八年五月五日.

1. 帝都ト風水害ノ防備問題. 6頁.

## 帝國鐵道協會會報

第二十卷. 第三號. 大正八年三月二十五日.

1. 貨車渡舢舨ノ應用. 8頁. 附圖. 1枚.

第二十卷. 第四號. 大正八年四月二十五日.

1. 鐵及鋼ノ研究. 17頁.

## ANNALES DES PONTS ET CHAUSSÉES PARTIE TECHNIQUE

Tome XLVI. Vol. V. Sept.—Oct., 1919.

1. Sur les données actuelles en matières de construction d'usines hydro-électriques. 70 p.
2. Sur la propagation des crues. 8 p.
3. Amélioration du triage par la gravité et réduction des dépenses. 7 p.

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

Vol. IX. No. 6. February, 1919.

1. The training required for engineers. 58 p.

## CANADIAN ENGINEER

Vol. 36. No. 9. Feb. 29, 1919.

1. Moore Park drainage system, Tronto. 4 p.
2. The town of Kipawa. 2½ p.

Vol. 36. No. 10. Mar. 6, 1919.

1. Sewage disposal works at London, Ontario. 5½ p.

2. Roads in Coleman Township.  $2\frac{3}{4}$  p.
3. Reinforced concrete slab bridge design based on tests of full size slabs. 2 p.
4. Road foundations, drainage and culverts. 2 p.

Vol. 36. No. 11. Mar. 13, 1919.

1. Canadian reinforced concrete arch bridges. 4 p.
2. National saving of fuel and power.  $4\frac{1}{2}$  p.

Vol. 36. No. 12. Mar. 20, 1919.

1. Standard gauge railway work at the front.  $2\frac{1}{2}$  p.

Vol. 36. No. 13. Mar. 27, 1919.

1. State aid for water power development. 2 p.

Vol. 36. No. 14. Apr. 3, 1919.

1. Canadian's largest reinforced concrete trusses. 4 p.

### CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. XIV. No. 2. February, 1919.

1. The Mystery Port of Richborough. 6 p.
2. Proportioning the materials of mortars and concrete by surface areas of aggregates. 7 p.
3. Recent British patents relating to concrete. 5 p.

Vol. XIV. No. 3. March, 1919.

1. New York barge canal. 5 p.
2. Proportioning the materials of mortars and concretes by surface areas of aggregates. 8 p.
3. A permanent exhibition of concrete products in London. 7 p.
4. The reinforced concrete dome over the new Hippodrome at Copenhagen. 3 p.
5. Concrete shipbuilding: Reinforced concrete ships, barges, and pontoons. 16 p.

### CONTRACTING

Vol. 8. No. 5. Mar. 1, 1919.

1. Greggs Falls Dam. 3 p.
2. Park Avenue viaduct erection. 2 p.
3. Hollow concrete piers sunk for Kansas City power house.  $1\frac{1}{2}$  p.

Vol. 8. No. 6. Mar. 15, 1919.

1. Essentials of important construction. 3 p.
2. Sinking large deep shafts in Kansas City. 2 p.
3. Shifting 100 ft. plate girder spans with derrick cars.  $1\frac{1}{4}$  p.
4. St. Paul covered reservoir.  $3\frac{1}{2}$  p.

### ELECTRIC RAILWAY JOURNAL

Vol. 53. No. 8. Feb. 22, 1919.

1. The zone fare in practice—Glasgow, Scotland.  $4\frac{1}{2}$  p.

Vol. 53. No. 9. Mar. 1, 1919.

1. Hints for the electric railway freight operator. 10 p.

Vol. 53. No. 10. Mar. 8, 1919.

1. The zone fare in practice—Glasgow-Scotland article. 8 p.

- Vol. 53. No. 11. Mar. 15, 1919.  
 1. Zone system for New Jersey. 6 p.
- Vol. 53. No. 12. Mar. 22, 1919.  
 1. Extending the life of wood poles.  $5\frac{1}{2}$  p.  
 2. Maintenance practice of the San Francisco municipal railway.  $2\frac{1}{2}$  p.  
 3. Some results of rail conservation. 3 p.
- Vol. 53. No. 13. Mar. 29, 1919.  
 1. The zone fare system in practice—Glasgow—Part III. 7 p.  
 2. Result of traffic check on public service railway. 5 p.
- Vol. 53. No. 14. Apr. 5, 1919.  
 1. New interurban terminal in operation in Akron, Ohio.  $2\frac{1}{4}$  p.  
 2. Electric railways in South Africa. 2 p.

### ENGINEERING

- Vol. CVII. No. 2771. Feb. 7, 1919.  
 1. Industrial accidents in the United States iron and steel industry.  $3\frac{1}{2}$  p.  
 2. The development of oxy-acetylene welding and cutting industry in the United States. 3 p.  
 3. Movements of small particles with and against light rays. 2 p.
- Nol. CVII. No. 2772. Feb. 14, 1919.  
 1. Torsional loads in the fuselage of an aeroplane.  $2\frac{3}{8}$  p.  
 2. Barnard's self-discharging grab. 2 p.
- Vol. CVII. No. 2773. Feb. 21, 1919.  
 1. Industrial progress of Japan and its probable effects.  $3\frac{1}{2}$  p.  
 2. The optical determination of stresses in aeroplane spars. 1 p.  
 3. The manufacture and design of toothed gearing.  $2\frac{1}{2}$  p.  
 4. The Southampton steam ferry. 3 p. with 2 plates.
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 1. The measurement of fluid velocity and pressure. 3 p.  
 2. Sliding friction in ball bearings. 3 p.
- Vol. CVII. No. 2775. Mar. 7, 1919.  
 1. The measurement of fluid velocity and pressure.  $2\frac{1}{2}$  p.  
 2. The extension of hydro-electric power in Sweden. 2 p.
- Vol. CVII. No. 2776. Mar. 14, 1919.  
 1. The measurement of fluid velocity and pressure. 2 p.
- Vol. CVII. No. 2777. Mar. 21, 1919.  
 1. On some principles of manufacturing interchangeable articles to limit gauges  $1\frac{1}{2}$  p.  
 2. The measurement of fluid velocity and pressure. 2 p.  
 3. Sliding friction in ball bearings.  $\frac{2}{3}$  p.
- Vol. CVII. No. 2778. Mar. 28, 1919.  
 1. The measurement of fluid velocity and pressure.  $3\frac{2}{3}$  p.

### ENGINEERING AND INDUSTRIAL MANAGEMENT

- Vol. I. No. 1. Feb. 14, 1919.  
 1. Human efficiency (with diagram). 3 p.  
 2. Workers' share in control. 2 p.  
 3. Organisation of an instructional factory. 4 p.  
 4. Modern methods of handling cargoes at the quayside. 4 p.

- Vol. I. No. 3. Feb. 27, 1919.  
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- Vol. I. No. 4. Mar. 6, 1919.  
 1. Labour problems and methods of production. 2 p.  
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 1. The wage problem in industry. 2 p.  
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- Vol. I. No. 6. Mar. 20, 1919.  
 1. Economic education for workers. 2 p.  
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## ENGINEERING NEWS-RECORD

- Vol. 82. No. 7. Feb. 13, 1919.  
 1. Brooklyn army base is largest port terminal. 6½ p.  
 2. Comparison of formulas for computing parabolic arcs. 1½ p.  
 3. Mammoth derricks build concrete outlet for Lockington Dam. 1½ p.  
 4. Inland ship-steel fabricating plants of the emergency fleet corporation. 5 p.  
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 6. Long girders and high columns designed as rigid frame. 2 p.
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 1. Economic balancing of highway excavation by a semi-graphic method. 3½ p.  
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 1. Operating a hydraulic dredge under difficulties. 4½ p.  
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 5. Tests show high shears in deep concrete beam. 3 p.  
 6. Shipyard on New Orleans Canal for building "Unsinkables." 4½ p.
- Vol. 82. No. 10. Mar. 6, 1919.  
 1. Colorado River flood control by storage. 5½ p.  
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 1. Building a floating dry dock in well laid out yard.  $2\frac{1}{2}$  p.  
 2. The construction division of our army: Operation and maintenance functions. 3 p.  
 3. Cantilever erection of draw in open position while old draws serves as fixed span. 3 p.
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 1. Cost of camp utility operation by the construction division of our army. 3 p.  
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 3. Railway Engineering Association has active meeting.  $3\frac{1}{2}$  p.  
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 8. High relative temperatures of pavement surfaces. 1 p.
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 1. Solving construction problems in Canal Street subway. 3 p.  
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## ENGINEERING WORLD

- Vol. 14. No. 5. Mar. 1, 1919.  
 1. Brooklyn army supply base. 6 p.  
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 6. San Francisco's protected beach. 2 p.
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 1. Design of exterior panels in flat slab construction.  $3\frac{1}{2}$  p.  
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## INDUSTRIAL MANAGEMENT

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1. Managing for maximum production. 6½ p.
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1. Seven questions regarding scientific management. 2½ p.

JOURNAL OF THE NEW ENGLAND WATER WORKS  
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Vol. 33. No. 1. March, 1919.

1. Measurement of rainfall and snow. 58 p.
2. Some practical uses of rainfall records. 10 p. with 2 plates.

## JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

Vol. XXIII. No. 6. June, 1918.

1. Concrete caissons sunk by the open dredging method. 25 p.

## LA HOUILLE BLANCHE

18<sup>e</sup> Année No. 25—26. Jan.—Fév., 1919.

1. Les Programme d'Etudes pour l'Aménagement des Forces hydrauliques. 4½ p.

## LE GÉNIE CIVIL

Tome LXXIV. No. 3. 18 Jan., 1919.

1. Cause de la rupture prématurée des pièces d'acier soumises à des efforts répétés. Inexactitude des lois de Wöhler. 5½ p.

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1. L'évolution de la locomotive à grande vitesse de 1878 à 1914 et l'influence de l'Ecole Alsacienne sur cette évolution. 6½ p.

Tome LXXIV. No. 7. 15 Fév., 1919.

1. Les appareils pour l'injection du mortier sous pression 5 p.

Tome LXXIV. No. 8. 22 Fév., 1919.

1. Les ferry-boats militaires franco-anglais. 5¼ p. with 1 plate.

Tome LXXIV. No. 9. 1 Mars, 1919.

1. Les ports français et la guerre. Calais et Boulogne. 6½ p.
2. L'état actuel et l'avenir de nos chemins de fer d'intérêt local. Les chemins de fer agricoles. 2¾ p.
3. Les nouvelles instructions hollandaises relatives aux constructions en béton armé. 2 p.

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1. La radiographie des métaux. L'emploi des rayons pour rechercher les défauts internes des pièces métalliques. 4 p.
2. L'aménagement hydraulique du Rhône français. Force motrice. Naviga-



- tion. Irrigation. Congrès de la Houille blanche.  $2\frac{1}{2}$  p.  
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 4. Calcul des voûtes paraboliques.  $1\frac{1}{2}$  p.

## MUNICIPAL JOURNAL

- Vol. XLVI. No. 9. Mar. 1, 1919.  
 1. Some lessons from French roads.  $1\frac{1}{2}$  p.  
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 1. A study of street flushing. 5 p.  
 2. Guarantees for pavements. 2 p.  
 Vol. XLVI. No. 11. Mar. 15, 1919.  
 1. Rain gauge records and run-off. 3 p.  
 2. A garbage crematory with self-respect.  $1\frac{1}{2}$  p.  
 Vol. XLVI. No. 12. Mar. 22, 1919.  
 1. Repairing pavement openings.  $3\frac{1}{2}$  p.  
 2. Water consumption in Detroit. 2 p.

## MUNICIPAL JOURNAL AND PUBLIC WORKS

- Vol. XLVI. No. 13. Mar. 29, 1919.  
 1. Snow survey of watersheds.  $1\frac{3}{4}$  p.

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

- Vol. X. No. 54. Nov.—Dec., 1918.  
 1. Wharf equipment. 21 p.

## RAILWAY AGE

- Vol. 66. No. 5. Jan. 31, 1919.  
 1. A new type of cinder handling plant. 1 p.  
 Vol. 66. No. 8. Feb. 21, 1919.  
 1. An unusual concrete roundhouse at Proctor, Minn. 3 p.  
 2. Standard specifications for timber preservation.  $2\frac{1}{2}$  p.  
 Vol. 66. No. 9. Feb. 28, 1919.  
 1. A new station for the Santa Fe at San Bernardino. 2 p.  
 2. Second track construction on the Hocking Valley. 2 p.  
 Vol. 66. No. 10. Mar. 7, 1919.  
 1. Peru's railways need many connecting links.  $4\frac{1}{2}$  p.  
 2. An analysis of the locomotive terminal problem.  $3\frac{1}{2}$  p.  
 3. The progress of the Alaskan Railroad.  $4\frac{1}{2}$  p.  
 Vol. 66. No. 11. Mar. 14, 1919.  
 1. Heavy standard Mallet type locomotive.  $3\frac{1}{4}$  p.  
 2. Modern tendencies in the design of roundhouses. 4 p.  
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 2. New plan for a Union Station at Cleveland, Ohio.  $3\frac{1}{2}$  p.

3. War situation and service of European railways. 2½ p.
- Vol. 66. No. 13. Mar. 28, 1919.
1. An important development in the railways of Spain. 6½ p.
  2. A possible solution of the railroad problem. 3 p.
  3. North British railway improvements at Glasgow. 3½ p.
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  2. Doings of the United States railroad administration. 5½ p.
  3. Railway developments in foreign countries. 4 p.
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1. Heavy railway construction along mexican border. 3 p.
  2. Doings of the United States railroad administration. 5½ p.
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  4. Railway developments in foreign countries. 6 p.

## RAILWAY GAZETTE

- Vol. XXX. No. 6. Feb. 7, 1919.
1. Ceylon Railway Signalling School. 1½ p.
- Vol. XXX. No. 7. Feb. 14, 1919.
1. European train speeds. 5¼ p.
- Vol. XXX. No. 9. Feb. 28, 1919.
1. British railway meetings. 4½ p.
- Vol. XXX. No. 10. Mar. 7, 1919.
1. Berlin-Baghdad. 2½ p.
  2. European train speeds. 5 p.
- Vol. XXX. No. 11. Mar. 14, 1919.
1. A new rail motor inspection car. 2 p.
  2. European train speeds. 3 p.
- Vol. XXX. No. 12. Mar. 21, 1919.
1. The slip at Wembley cutting, Great Central Railway. 7 p. with 1 plate.

## RAILWAY MAINTENANCE ENGINEER

- Vol. 15. No. 3. March, 1919.
1. Highway crossing signs in Connecticut. ½ p.
  2. Better outlook for supply of treated timber. 3½ p.
  3. An outline for the inspection of steel bridges. 1½ p.
  4. Specifications for timber preservation. 2 p.
  5. Railway water supplies in Western Australia. 1 p.
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1. What is essential maintenance work. 3¾ p.
  2. Building American railroads in France. 2½ p.
  3. Looking for unsafe conditions in timber bridge. 1½ p.

## RAILWAY REVIEW

- Vol. 64. No. 8. Feb. 22, 1919.
1. Construction of St. Louis municipal wharf. 4¾ p.
- Vol. 64. No. 9. Mar. 1, 1919.
1. The railways of the republic of Chile. 5 p.

- Vol. 64. No. 10. Mar. 8, 1919.
1. Toledo & Ohio central engine terminal. 2 p.
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