

# 内外諸雜誌主要題目

## 工 學

第三卷 第四號(第二十四號) 大正五年四月十日

1. 聯動表ヲ調製スル新法. 七頁.
2. 鑄鐵管試驗法. 五頁.
3. 軌條ノ用途撰擇及檢査ニ就テ. (四). 六頁.
4. 埋立工事ト唧筒式浚渫機. (三). 五頁.
5. 請負ノ研究. (二十三). 三頁.

第三卷 第五號(第二十五號) 大正五年五月十日

1. 押角ノ研究. 六頁.
2. ふん及ヒぶろあニ就テノ計算. 三頁半.
3. 道路横斷勾配ノ研究. 四頁.
4. 軌條ノ用途撰擇及檢査ニ就テ. (五). 六頁.
5. 埋立工事ト唧筒式浚渫機. (四). 九頁.
6. 請負ノ研究. (二十四). 三頁.

## 工業雜誌

第四十四卷 第五百七十八號 大正五年四月二十五日

1. 東京市ノ河川及其維持. 七頁.

第四十四卷 第五百七十九號 大正五年五月十日

1. 温度ノ差ヨリ起ル内力ニ就テ. 六頁半.
2. 東京市ノ河川及其維持. 四頁.
3. 鐵道院官房研究所ノ試驗業務. 八頁半.

## ANNALES DES PONTS ET CHAUSSÉES PARTIE TECHNIQUE

Tome XXVIII. Vol. IV. Juillet-Août, 1915.

1. Note sur l'aménagement de la Garonne entre Bordeaux et le Bec d'Ambès. 44 p.
2. L'imperméabilisation des mortiers et l'huile anthracénique. 20 p.
3. Étude comparative des spécifications en vigueur pour la fourniture des rails. 35 p.

## CASSIER'S ENGINEERING MONTHLY

Vol. 49. No. 2. February, 1916.

1. A notable inland waterway. 11 p.
2. Cast iron: The strength and properties of casting. 13 p.

Vol. 49. No. 4. April, 1916.

1. Some effects of the war on dock and harbour engineering operations. 7 p.
2. Industrial war economy. Part 2. 16 p.

3. Air-lifts for deep wells. 15 p.

### CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. XI. No. 2. February, 1916.

1. Bending and twisting moments in beams curved in plan.  $6\frac{1}{2}$  p.
2. Glebe Island electrically operated swing bridge, New South Wales. 6 p.
3. The influence of temperature on the strength of concrete. 5 p.
4. The destruction of concrete bridges by means of explosives.  $3\frac{1}{2}$  p.
5. Some notes on reinforced concrete. 9 p.

Vol. XI. No. 3. March, 1916.

1. Torsion stresses in beam sections. 5 p.
2. 2,500-ton concrete cribs. 5 p.
3. Reinforced concrete as applied to waterworks construction. 5 p.

### ELECTRIC RAILWAY JOURNAL

Vol. XLVII. No. 9. Feb. 26, 1916.

1. Accident reduction in Chicago.  $2\frac{1}{2}$  p.

Vol. XLVII. No. 10. Mar. 4, 1916.

1. Track maintenance in streets.  $2\frac{1}{2}$  p.

Vol. XLVII. No. 14. Apr. 1, 1916.

1. Electric operation on the C., M. & St. P. 3 p.
2. Boston elevated reports on safety. 2 p.

Vol. XLVII. No. 15. Apr. 8, 1916.

1. Illinois Association discusses economics in power consumption. 8 p.

Vol. XLVII. No. 16. Apr. 15, 1916.

1. Concrete and asphalt mixing plant saves its cost in one year.  $3\frac{1}{2}$  p.

### ENGINEERING

Vol. CI. No. 2616. Feb. 18, 1916.

1. Distribution of pressure by granular materials.  $\frac{1}{2}$  p.

Vol. CI. No. 2618. Mar. 3, 1916.

1. The pivot pier of Glebe Island Bridge, Port Jackson, New South Wales. 5 p.

Vol. CI. No. 2619. Mar. 10, 1916.

1. 30-ton traverser at Moor-Street Goods Station, Birmingham.  $4\frac{1}{2}$  p.

Vol. CI. No. 2620. Mar. 17, 1916.

1. Stresses in ferro-concrete arches. 1 p.

Vol. CI. No. 2621. Mar. 24, 1916.

1. The railways in war time.  $1\frac{1}{2}$  p.

Vol. CI. No. 2622. Mar. 31, 1916.

1. The Rangoon river-training works. 3 p.
2. The corrosion of metals. 2 p.

### ENGINEERING NEWS

Vol. 75. No. 8. Feb. 24, 1916.

1. Brazilian opportunities and the Brazil Railway.  $5\frac{1}{2}$  p.
2. Concrete highway trestle.  $4\frac{1}{2}$  p.
3. Draining the Roseau River swamp in Minnesota.  $2\frac{1}{2}$  p.

- Vol. 75. No. 9. Mar. 2, 1916.
1. Galveston storm repairs.  $2\frac{1}{2}$  p.
  2. Building an unusual foundation for a heavy machine. 3 p.
  3. Pine bluff vertical-lift span suspended by chains.  $4\frac{1}{2}$  p.
- Vol. 75. No. 10. Mar. 9, 1916.
1. Electric dredge used on river improvement in Washington. 3 p.
  2. Tile drainage by day labor and by the road.  $2\frac{1}{2}$  p.
  3. Monolithic concrete curb and pavement in Arcade, N. Y.  $2\frac{1}{2}$  p.
  4. Design of rock-fill dams. 4 p.
- Vol. 75. No. 11. Mar. 16, 1916.
1. Brooklyn-Brighton concrete viaduct completed. 2 p.
  2. Track elevation and station at Fort Wayne, Ind.  $3\frac{1}{2}$  p.
- Vol. 75. No. 12. Mar. 23, 1916.
1. Susquehanna concrete viaduct built in Halves. 4 p.
  2. Design of Darien Radio Towers.  $3\frac{1}{2}$  p.
  3. Unusual water-works purchase  $2\frac{1}{2}$  p.
  4. Cylinder-pier foundations of the Lincoln Memorial.  $3\frac{1}{2}$  p.
- Vol. 75. No. 13. Mar. 30, 1916.
1. Seattle Water-Works troubles.  $3\frac{1}{2}$  p.
  2. Building 22 mile of pipe sewers under one contract.  $3\frac{1}{2}$  p.
  3. Four-span steel-arch bridge at Indianapolis, Ind.  $2\frac{1}{2}$  p.
  4. Chicago track-elevation bridges of Illinois Central R. R.  $3\frac{1}{2}$  p.
  5. Unique method used to build rock-fill dam. 3 p.
- Vol. 75. No. 14. Apr. 6, 1916.
1. Box concrete retaining wall on Western Pacific Ry.  $2\frac{1}{2}$  p.
  2. Bank protection above Sibley Bridge; Santa Fe Ry.  $2\frac{1}{2}$  p.
  3. Modernizing the Manchester Water-Works.  $2\frac{1}{2}$  p.
  4. Novel construction features of Cincinnati concrete bridge. 2 p.
- Vol. 75. No. 15. Apr. 13, 1916.
1. Difficult underpinning along William St. Subway.  $4\frac{1}{2}$  p.
  2. California rainfall and runoff and recent floods.  $2\frac{1}{2}$  p.
  3. Reconstruction of Mississippi River Bridge at Keokuk. 3 p.

## ENGINEERING RECORD

- Vol. 73. No. 8. Feb. 19, 1916.
1. Philadelphia Electric Company power station A-2 has four 12-foot steel stacks 165 feet high.  $3\frac{1}{2}$  p.
  2. Analysis and tests held to show advantages of new flat slab reinforcement—Part 2. 4 p.
  3. Cleanliness standards for steel cleaning established for first time.  $2\frac{1}{2}$  p.
  4. Plan for Lehigh Valley Station at Buffalo places train shed columns between tracks. 2 p.
- Vol. 73. No. 9. Feb. 26, 1916.
1. Wall-plate drift method used for the most part in Twin Peaks Tunnel, San Francisco. 2 p.
  2. Concrete road conference adopts code of recommended practice. 2 p.
  3. Present practice in concrete design and construction summed up at convention last week. 6 p.
- Vol. 73. No. 10. Mar. 4, 1916.
1. National defense—For engineer and contractor. 4 p.
  2. Great variety in design reduces cost of new Portland Harbor Bridge.  $3\frac{1}{2}$  p.

3. Needle-beam heading method applied to sewer tunnel in dry ground. 2 p.
- Vol. 73. No. 11. Mar. 11, 1916.
1. City planning on an exceptionally large scale is meeting with public approval at Philadelphia. 4½ p.
  2. National defense—For engineer and contractor. 3½ p.
  3. Two Ohio River dams built in two seasons. 4 p.
- Vol. 73. No. 12. Mar. 18, 1916.
1. "Soo Terminal" type of station, being built by Lackawanna at South Orange, nears completion. 4 p.
  2. Corpus Christi causeway contains 2300 feet of reinforced concrete girder spans. 2½ p.
  3. National defense—For engineer and contractor. 3½ p.
- Vol. 73. No. 13. Mar. 25, 1916.
1. Cleveland's sewage treated by revolving screens and novel grit chambers. 2½ p.
  2. Venturi meter developed for accurate measurement of irrigation water. 2½ p.
- Vol. 73. No. 14. Apr. 1, 1916.
1. Design of germanic museum required solution of many special problems. 2 p.
  2. National defense—For engineer and contractor. 3 p.
  3. Mississippi River flood records studied with relation to levee grades. 3 p.
- Vol. 73. No. 15. Apr. 8, 1916.
1. Record flood from melting snow passes through Rochester, N. Y. 2 p.
  2. National defense—For engineer and contractor. 3 p.
  3. Screening and concrete plants for building use gravel from cellar excavation. 2 p.
  4. Howe remote stream crossings are bridged by the forest service. 1½ p.
- Vol. 73. No. 16. Apr. 15, 1916.
1. Grouting an effective remedy for stopping leakage in tunnels and shafts. 3½ p.
  2. Small irrigation canals lined with concrete to prevent seepage water loss. 2 p.
  3. National defense—For engineer and contractor. 2 p.
  4. Dynamite, oxy-acetylene, fire and cranes required to wreck concrete bins. 2 p.
  5. Large suction dredges depend on high velocity for extraordinary output. 3½ p.
  6. Portable concrete plant builds Louisville and Portland Canal wall. 2½ p.

## JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

- Vol. XXI. No. 1. January, 1916.
1. Design of railway pontoon bridge. 26 p.
  2. The advantage of a combined use of tables and formulas in the computation of bridge trusses. 18 p.
- Vol. XXI. No. 2. February, 1916.
1. Deflection of trusses. 21 p.

2. The use of influence lines. 23 p.

### LE GÉNIE CIVIL

- Tomo LXVIII. No. 6. 5 Fév., 1916.  
 1. Le tunnel Astoria, à New York, pour le passage de conduites de gaz sous l'East River. 4½ p.
- Tomo LXVIII. No. 7. 12 Fév., 1916.  
 1. Le ferry-bout brise-glace "Scotia II," pour le service de l'île du Cap-Breton (Canada). 3 p.
- Tomo LXVIII. No. 8. 19 Fév., 1916.  
 1. Considérations sur les ponts tournants sur pile centrale. 3 p.
- Tomo LXVIII. No. 9. 26 Fév., 1916.  
 1. Les travaux du port de Monaco. 6 p.  
 2. Expériences sur l'action du frottement dans les colonnes de béton armé.
- Tomo LXVIII. No. 10. 4 Mars, 1916.  
 1. Les inondations de janvier 1916 en Hollande. 3 p.
- Tomo LXVIII. No. 12. 18 Mars, 1916.  
 1. La distribution de l'énergie électrique en Catalogne. Installation de la Riegos y Fuerza del Ebro. 6 p.

### MUNICIPAL JOURNAL

- Vol. XI. No. 8. Feb. 24, 1916.  
 1. Practical street construction. 1½ p.  
 2. Pitch sand mastic filler. 2 p.
- Vol. XI. No. 10. Mar. 9, 1916.  
 1. Practical street construction—Street widths. 3½ p.  
 2. Expansion and contraction of concrete. 1 p.
- Vol. XI. No. 11. Mar. 16, 1916.  
 1. Concrete pavement with Bituminous top. 2 p.  
 2. Street lighting discussion. 3 p.  
 3. Monolithic construction of brick pavements. 2 p.
- Vol. XI. No. 12. Mar. 23, 1916.  
 1. Practical street construction—Street widths. 3 p.
- Vol. XI. No. 13. Mar. 30, 1916.  
 1. Practical street construction—Side walk widths. 3½ p.
- Vol. XI. No. 14. Apr. 6, 1916.  
 1. Road maintenance in the several states. 15 p.  
 2. Recent development in the building of concrete roads. 2½ p.  
 3. Merits of asphalt roads. 3½ p.
- Vol. XI. No. 15. Apr. 13, 1916.  
 1. Sewer tunnel lined with vitrified blocks. 2½ p.  
 2. Practical street construction—Street widths. 2 p.

### PROFESSIONAL MEMOIRS

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

- Vol. VIII. No. 38. March-April, 1916.  
 1. Foundations of the Lincoln Memorial in Washington, D. C. 20 p.

2. The work of the United States Lake Survey Office, Detroit, Michigan. 12 p.
3. Fallacies in retaining wall design and the lateral pressure of saturated earth. 35 p.
4. Moving plant from south jetty to north jetty, Humboldt Bay, California. 15 p.

### RAILWAY GAZETTE

- Vol. XXIV. No. 4. Jan. 28, 1916.
1. Electrification of the Manchester to Bury section of the Lancashire & Yorkshire Railway. 6 p.
  2. Results gained with a ballast dresser. 1½ p.
- Vol. XXIV. No. 5. Feb. 4, 1916.
1. Electrification of the Manchester to Bury section of the Lancashire & Yorkshire Railway. 8 p.
  2. A new coal dock for the Cincinnati, Hamilton & Dayton, at Toledo. 2 p.
- Vol. XXIV. No. 6. Feb. 11, 1916.
1. Renewal of ties—Inspection, marking and records. 3 p.
- Vol. XXIV. No. 9. Mar. 3, 1916.
1. Typical small standard engine depôt on the Great Western Railway. 3 p.
- Vol. XXIV. No. 10. Mar. 10, 1916.
1. The advantage and cost of transition curves. 1½ p.
  2. Protection of level crossings. 1 p.
- Vol. XXIV. No. 12. Mar. 24, 1916.
1. The "director" class superheated express locomotives. Great Central Railway. 7 p.

### RAILWAY REVIEW

- Vol. 58. No. 8. Feb. 19, 1916.
1. The fungus of decay in railroad ties. 1½ p.
  2. Strength tests of structural timbers treated by commercial wood-preserving processes. 3 p.
  3. Manufacture and uses of alloy steels. 3 p.
- Vol. 58. No. 9. Feb. 26, 1916.
1. Improvement of Manhattan elevated railways, New York City. 4 p.
  2. Pulverized fuel for locomotives. 4 p.
  3. The manufacture and use of alloy steel. (continued from page 284.) 1 p.
  4. Slides at the Panama Canal. 5 p.
- Vol. 58. No. 10. Mar. 4, 1916.
1. Record of ten years. (Tractive power, train loads, car capacity, car loads and ton-mile cost of locomotive maintenance, freight car maintenance, and fuel.) 2 p.
- Vol. 58. No. 11. Mar. 11, 1916.
1. New grain elevator of the Western Maryland Ry. at Baltimore, Md. 1½ p.
  2. Waterproofing practice in the New York subway. 3½ p.
  3. The manufacture and use of alloy steel. (continued from page 346.) 3 p.
- Vol. 58. No. 12. Mar. 18, 1916.
1. Progress on the Boston subway. 7 p.

2. Track maintenance.—Renewing ties. 3 p.  
 Vol. 58. No. 13. Mar. 25, 1916.  
 1. Convention of the American Railway Engineering Association. 9 p.  
 2. Meeting of the Railway Signal Association. 5 p.  
 Vol. 58. No. 15. April 8, 1916.  
 1. Investigation of initial strains in steel rails. 7 p.  
 2. Slides at the Panama Canal. 3½ p.  
 Vol. 58. No. 16. April 15, 1916.  
 1. Eliminating a group of nine grade crossings on the Long Island R. R. 7 p.

## SCIENTIFIC AMERICAN

- Vol. CXIV. No. 9. Feb. 26, 1916.  
 1. Preparing to meet a coal shortage. (Problems of storing coal.) 2 p.  
 Vol. CXIV. No. 10. Mar. 4, 1916.  
 1. Holland in the grip of its old enemy. 1 p.  
 2. Making the desert bloom. (How the United States reclamation service in developing our water regions.) 2 p.  
 Vol. CXIV. No. 13. Mar. 25, 1916.  
 1. Over the whirlpool by aerial cable. (Describing an aerial scenic railway recently completed at Niagara Falls.) 1 p.  
 Vol. CXIV. No. 15. Apr. 8, 1916.  
 1. Building the world's highest highway. 1 p.  
 2. Conveying and applying concrete by steam. ¾ p.  
 Vol. CXIV. No. 16. Apr. 15, 1916.  
 1. A half-mile double-deck concrete bridge. ½ p.  
 2. The air breakwater put to severe test. ½ p.

## SCIENTIFIC AMERICAN SUPPLEMENT

- Vol. LXXXI. No. 2096. Mar. 4, 1916.  
 1. The longest railway tunnel in America. (The Roger's Pass bore through the Selkirk Mountains in British Columbia.) 1¾ p.  
 Vol. LXXXI. No. 2097. Mar. 11, 1916.  
 1. Handling concrete in building operations. (Apparatus designed for rapid and economical operation.) 1 p.  
 2. Modern concrete sewers and other structures. (Made possible by the use of steel reinforcement.) ½ p.  
 Vol. LXXXI. No. 2099. Mar. 25, 1916.  
 1. The fuel supply of a big power plant. (Storage of coal at New York.) 1¾ p.  
 Vol. LXXXI. No. 2102. Apr. 15, 1916.  
 1. Oiling on earth roads. (Presenting suggestions for obtaining best results.) 1¾ p.

## THE ENGINEER

- Vol. CXXI. No. 3135. Jan. 28, 1916.  
 1. Manchester to Bury electrification. No. III. 3 p.  
 Vol. CXXI. No. 3136. Feb. 4, 1916.  
 1. Manchester to Bury electrification. No. IV. 3 p.

2. Remodeling the Elswick Gasworks. 2½ p.  
Vol. CXXI. No. 3137. Feb. 11, 1916.  
1. Manchester to Bury electrification. No. V. 4 p.  
2. Erection of an arch on suspended centering of reinforced concrete. 1½ p.  
Vol. CXXI. No. 3138. Feb. 18, 1916.  
1. New bridge over the Ribble at Preston. 2 p.  
Vol. CXXI. No. 3139. Feb. 25, 1916.  
1. Manchester to Bury electrification. No. VI. 5½ p.  
2. Road traction by petrol, steam and electric motor vehicles. 1 p.  
Vol. CXXI. No. 3140. Mar. 3, 1916.  
1. The Valparaiso port works. 2¾ p.  
2. Comparative particulars of some recent dams. 2¼ p.  
Vol. CXXI. No. 3141. Mar. 10, 1916.  
1. Electrification on the Pennsylvania Railroad. 3 p.  
Vol. CXXI. No. 3142. Mar. 17, 1916.  
1. Shortening the Lackawanna Railroad. 4 p.  
Vol. CXXI. No. 3143. Mar. 24, 1916.  
1. The Medlow Dam. 2½ p.  
Vol. CXXI. No. 3144. Mar. 31, 1916.  
1. Grain elevating and conveying plant at Sunderland. 4½ p.

## THE ENGINEERING MAGAZINE

- Vol. L. No. 6. March, 1916.  
1. Elevators in manufacturing plants. 27 p.  
2. Openpit mining operators. 14 p.  
3. Drill carriages for tunneling. 3 p.  
Vol. LI. No. 1. April, 1916.  
1. Industrial trucks and cars. 25 p.

## THE INDIAN &amp; EASTERN ENGINEERING

- Vol. XXXVIII. No. 4. April, 1916.  
1. The Uganda Railway. 1¼ p.  
2. The main drainage of Cairo. 1 p.

## THE RAILWAY ENGINEER

- Vol. XXXVII. No. 433. Feb., 1916.  
1. Automatic train control.—American practice. 4 p.  
2. Reinforced concrete in railway work. XXIII. 4 p.  
3. Sewage disposal from railway depots. 3 p.  
Vol. XXXVII. No. 434. Mar., 1916.  
1. Quebec-Levis car ferry "Leonard" transcontinental railway. 1½ p.  
2. Snow protection and snow clearing on Swedish State Railways. 1 p.  
Vol. XXXVII. No. 435. Apr., 1916.  
1. Tunnels—IV. 3¼ p.

## THE RAILWAY MAGAZINE

- Vol. XXXVIII. No. 223. January, 1916.  
1. Railways of Berkshire. 8 p.



2. Esquimalt and Nanaimo Railway. 7 p.
  3. Railway electrical progress and practice: Single track automatic signals on "indicator." 5 p.
  4. The "Hardinge" Bridge: Eastern Bengal State Railways. 3 p.
- Vol. XXXVIII. No. 224. February, 1916.
1. The Great Eastern Railway in South Wales. [No. I.] 10 p.

#### WATER AND WATER ENGINEERING

- Vol. XVIII. No. 206. February, 1916.
1. Use of ropeways in water engineering. 4½ p.
  2. The action of water under dams. 2 p.
- Vol. XVIII. No. 207. March, 1916.
1. Artesian wells and methods of pumping them. 3½ p.
  2. Reinforced concrete dams. 1 p.