

mission. 45 P., 6×9, paper.
 Smoley's parallel tables of slope and rises: In combination with diagrams of slopes and rises and other tables—For bridge and structural engineers, draftsman, checkers, template makers, builders and vocational schools. 300 P., illustrated, 5×7, leather. McGraw-Hill Book Co., New York. Price: \$3.50.

内外諸雑誌主要題目

發電水力

第三十號 大正六年八月十五日

1. 地方別既許可發電水力地點一覽 一頁
2. 朝鮮ニ於ケル發電水力 其四 一頁

第三十一號 大正六年九月十五日

1. 鶴見埋築株式會社發電所梗概 二頁

工學

第四卷 第七號(第三十九號) 大正六年七月十日

1. 渡船設備ノ改良 (一) 五頁
2. 頗ル有望ナル北朝鮮ノ水力電氣事業 十一頁

第四卷 第八號(第四十號) 大正六年八月十日

1. 輕便碎岩工事 三頁
2. 渡船設備ノ改良 (二) 三頁

第四卷 第九號(第四十一號) 大正六年九月十日

1. 東京市ノ地下埋設物ト地上露出物 十一頁
2. 渡船設備ノ改良 (三) 三頁

工學會誌

第四百八號 大正六年七月二十七日

1. こんぶれっそる式びろんトペですたる式ばいるノ荷重試験報告 十六頁

第四百九號 大正六年九月十日

1. 隅田川口改良工事 三十五頁

工業雜誌

第四十七卷 第六百九號 大正六年八月十日

1. 新廣軌鐵道改築問題 六頁

第四十七卷 第六百十號 大正六年八月二十五日

1. 標準鋼材ノ規格ニ關スル疑義 五頁
2. せめんと代用品ニ就テ 六頁

第四十七卷 第六百十一號 大正六年九月十日.

1. 大正初期ノ機關車. 十三頁.
2. 比較的經濟ナルせめんと混擬土舗道. 三頁.

帝國鐵道協會會報

第十八卷 第七號 大正六年七月二十五日.

1. 鐵道院鐵道用品仕様書. 四十五頁.
2. 廣軌試驗ニ關スル説明. 九頁.

第十八卷 第八號 大正六年八月二十五日.

1. 鐵道院鐵道用品仕様書. 二十九頁.

ANNALES DES PONTS ET CHAUSSEES PARTIE TECHNIQUE

Tome XXXVII. Vol. I. Jan.-Féb., 1917.

1. L'épuration des eaux d'égout: La décantation. Résultats obtenus à la station de Mesly.—Théorie, essais et expériences.—Procédés divers de décantation. Utilité de la décantation des eaux d'égout. 145 p.

Tome XXXVIII. Vol. II. Mar.-Avr., 1917.

1. Mesure des débits. Le jaugeur Venturi. 25 p.
2. Pièces à flexion simple en béton armé. Détermination de la fibre neutre par la balance et du travail par la pendule. 6 p.

CEMENT WORLD

Vol. 11. No. 6. June, 1917.

1. Building and maintaining concrete roads and streets. 6 p.
2. Paints on concrete road construction. 2½ p.
3. The Panama Canal Zone concrete water purification plants. 2 p.
4. Water-front and warehouse developments at New Orleans. 5 p.

Vol. 11. No. 7. July, 1917.

1. World's largest rock crushing plant. 6½ p.
2. Water proofing concrete by hydrated lime process. 1½ p.
3. Monolithic dam on the Wisconsin River. 2 p.

Vol. 11. No. 8. August, 1917.

1. Concrete ore dock extension at Superior, Wisconsin. 6 p.
2. Building large reinforced concrete reservoir at Lansing, Michigan. 2 p.
3. Third avenue concrete bridge at Minneapolis. 2 p.
4. Humboldt Bridge, Bloomingdale road track elevation. 4 p.

CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. XII. No. 6. June, 1917.

1. New nut silos and warehouses. 11 p.
2. Recent views on concrete and reinforced concrete. 11 p.

Vol. XII. No. 7. July, 1917.

1. Concrete railway sleepers. 20 p.
2. Reinforced concrete roofs in India. 11 p.

Vol. XII. No. 8. August, 1917.

1. Reinforced concrete caissons. 6 p.
2. Researches on reinforced concrete beams. 13 p.
3. A large filtration plant at St. Louis. 9 p.
4. Portland cement paint as a protection to structural steel. 5 p.
5. A reinforced concrete bridge in Italy. 7 p.

ELECTRIC RAILWAY JOURNAL

Vol. 49. No. 23. June 9, 1917.

1. Steel trolley wire on Pacific Electric Railway. 2 p.

Vol. 49. No. 24. June 16, 1917.

1. Typical car-yard improvements at Rochester, N.Y. 3 p.

Vol. 49. No. 25. June 23, 1917.

1. A modern type of track construction. 2½ p.

2. Track paving construction in Seattle, Wash. 1 p.

Vol. 49. No. 26. June 30, 1917.

1. Power tools on track work save time and money. 4 p.

Vol. 50. No. 7. Aug. 18, 1917.

1. Railway stops—Their effect on scheduled speed. 3½ p.

Vol. 50. No. 8. Aug. 25, 1917.

1. Springfield street railway builds model carhouse. 3½ p.

2. Pacific electric railway terminal at Los Angeles. 3 p.

ENGINEERING

Vol. CIII. No. 2682. May 25, 1917.

1. The raymond concrete pile. 1 p.

Vol. CIII. No. 2684. June 8, 1917.

1. Reconstruction of Union Pacific Railroad bridge at Omaha.

Vol. CIII. No. 2686. June 22, 1917.

1. The Institution of Gas Engineers. 8 p.

2. Dams and water storage. 1 p.

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1. The Arrowrock Dam, near Boise, Idaho, U.S.A. 1½ p.

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1. Gasholder at Tottenham. 6 p.

2. Sewage aeration and activated sludge. 1½ p.

3. The hardening of steel by chromium and copper. 1½ p.

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1. The Harlem River subway tunnel, New York. 5½ p.

2. Stress determination in a flat plate. 3½ p.

3. Activated sludge process of sewage purification at Worcester. 2½ p.

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1. Lancashire and Yorkshire railway shipping shed at Goole. 6 p.

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1. Ductile material under variable shear stress. 2½ p.

2. The Harlem River subway tunnel, New York. 9 p.

3. Failure of reinforced concrete bridges in Prussia. 1 p.

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1. Stresses in rotating discs with a hole in the centre. 3½ p.

Vol. CIV. No. 2693. Aug. 10, 1917.

1. The Vamma Power Station, Norway. 4 p.
2. Sand-settling basin for hydraulic plants. 1 p.

ENGINEERING NEWS-RECORD

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內外諸雜誌主要題目

- Vol. 78. No. 9. May 31, 1917.
1. Suspension bridge solves problem of crossing Rio Chiriqui in Panama. 2½ p.
 2. The case of the Standley Lake Dam. 5 p.
 3. Septic tanks reconstructed as Imhoff tanks at Columbus. 2 p.
 4. Deadlock on cast-iron pipe specifications. 4 p.
 5. Progress in the rail problem marked by sharp differences in view. 4 p.
- Vol. 78. No. 10. June 7, 1917.
1. Accidents on construction. 4 p.
 2. Failure by hydraulic projects from lack of water prevented by better hydrology. 3 p.
 3. Motor vehicles the key to New York street-cleaning problem. 3 p.
- Vol. 78. No. 11. June 14, 1917.
1. Concrete lock paving done first in rapid construction of Ohio River Dam. 4½ p.
 2. Extracting alcohol from garbage would conserve vast quantities of grain and potatoes. 1½ p.
 3. Overcoming practical problems in mechanical water-filter operation. 2 p.
 4. An interview: Tendencies in bridge construction. 3 p.
 5. Panama has largest locomotive jib crane. 2½ p.
 6. Girderless reinforced-concrete floor system has straight-bar reinforcement. 2 p.
 7. Designing methods for straight-bar system of flat slabs. 2 p.
- Vol. 78. No. 12. June 21, 1917.
1. Three-hinged arch highway bridge built of timber. 2½ p.
 2. Bituminous foundations for sheet-asphalt surfaces. 3 p.
- Vol. 79. No. 1. July 5, 1917.
1. Covered concrete channel for creek at steel plant. 2½ p.
 2. Dallas builds imhoff sewage works fed by concrete pressure line. 3 p.
 3. Reconstruction executed safely of complicated elevated railway. 2 p.
- Vol. 79. No. 2. July 12, 1917.
1. Defiance of statute and engineering law wrecked Mammoth Dam. 4½ p.
 2. Materials and tests. 1½ p.
 3. Drive 3776 concrete piles in 30 days for navy. 3 p.
 4. Standard bridge floors of concrete slabs on steel beams. 3 p.
 5. From mixer to forms at a mile a minute. 1½ p.
 6. Unusual location of tanks obviates pumping at sewage filters. 3 p.
 7. Bids for concrete arch viaduct less than for steel design. 1½ p.
 8. Interlocking blocks tied together make concrete chimney. 1½ p.
 9. Dragline makes heavy railroad cut through Cleveland. 2½ p.
- Vol. 79. No. 3. July 19, 1917.
1. Improved major-street plan for St. Louis proposed by city plan commission. 4½ p.
 2. Locomotive cranes erect cantilever bridge over Ohio River. 1½ p.
 3. Cast-iron pipe specification controversy. 5½ p.
 4. Monumental portal completed at approach of Manhattan Bridge. 1½ p.

5. Wide roadway of Cleveland Bridge concreted cheaply. 2 p.
- Vol. 79. No. 4. July 26, 1917.
1. Cleveland subway cuts sheeted with round piles. 4 p.
 2. The American surveyor in the Philippines. 2½ p.
 3. California reservoirs silt up slowly. 1½ p.
 4. Bascule bridge is erected as a cantilever. 2 p.
 5. Making surveys for land and lake tunnel at Chicago. 2½ p.
- Vol. 79. No. 5. Aug. 2, 1917.
1. Homogeneous organization speeds work at Ayer cantonment. 6½ p.
 2. Rational study of rainfall data makes possible better estimates of water yield. 2½ p.
 3. Island Lake storage dam has immense log sluice. 3½ p.
 4. Cantilever concrete bridge has suspended link. 1½ p.

INDIAN ENGINEERING

- Vol. LXI. No. 5. Feb. 3, 1917.
1. Thelum River hydraulics in the Kashmir Valley. 2½ p.
- Vol. LXI. No. 7. Feb. 17, 1917.
1. Thelum River hydraulics in the Kashmir Valley. 3½ p.
- Vol. LXI. No. 8. Feb. 24, 1917.
1. Rail failures and their origin. 1 p.
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1. Thelum River hydraulics in the Kashmir Valley. 3½ p.
- Vol. LXI. No. 18. May 5, 1917.
1. Clay pressures. 2 p.

INDUSTRIAL MANAGEMENT (The Engineering Magazine)

- Vol. LIII. No. 5. August, 1917.
1. Installing equipment in concrete buildings. 8 p.

JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

- Vol. XXII. No. 4. April, 1917.
1. Graphical calculus. 87 p.
- Vol. XXII. No. 5. May, 1917.
1. The nature of the power requirements of the electrochemical industry. 40 p.
 2. The making of rates after valuation. 35 p.

LE GÉNIE CIVIL

- Tome LXX. No. 21. 26 Mai, 1917.
1. Méthode rapide de calcul des lignes d'influence d'arcs prismatique surbaissés à deux encastrements. 4½ p.
- Tome LXX. No. 22. 2 Juin, 1917.
1. Les ports français et la guerre : Honfleur et Saint Malo. 4½ p.
 2. Restauration de ponts en béton armé fissuré sur les chemins de fer prussiens. 2½ p.

Tome LXX. No. 23. 9 Juin, 1917.

1. Les installations pour le transbordement et l'entmagasinage du charbon aux.

Tome LXX. No. 24. 16 Juin, 1917.

1. L'usine hydro-électrique de la Tallassee Power Co. sur la Yadkin River (North Carolina, E.-U.). Turbines hydrauliques de 31000 chevaux. 3 p.

Tome LXX. No. 26. 30 Juin, 1917.

1. La fixation des chaises et des consoles dans les constructions en béton armé. 4 p.

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1. La reconstruction de la gare de marchandises d'Oldham Road, à Manchester. 5½ p.

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1. Les ports français et la guerre: Cherbourg et Brest. 5 p.
2. Flexion des rails de tramway. 3 p.

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1. Les ports français et la guerre. Bordeaux et ses ports annexes girondins: Blaye, Pauillac. 7 p.

MUNICIPAL JOURNAL

Vol. XLII. No. 26. June 28, 1917.

1. Improved street system for St. Louis. 2½ p.

Vol. XLIII. No. 2. July 12, 1917.

1. Covered reservoir of reinforced concrete. 2½ p.

Vol. XLIII. No. 4. July 26, 1917.

1. The new Brunswick filtration plant. 2 p.

Vol. XLIII. No. 5. Aug. 2, 1917.

1. Construction Work on Du Pont road. 3 p.

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1. Concrete paving on Connecticut highway. 1½ p.
2. Operating the St. Louis filters. 2 p.

Vol. XLIII. No. 8. Aug. 23, 1917.

1. Constructing the Storm King road. 4 p.

PROFESSIONAL MEMOIRS

CORPS OF ENGINEERS, UNITED STATES ARMY AND ENGINEER DEPARTMENT AT LARGÉ.

Vol. IX. No. 46. July-Aug., 1917.

1. The Sidehaul Railway dry dock at West Memphis, Ark. 6 p.
2. Repointing sea wall at Governors Island. 10 p.
3. Concrete wharf supports in San Francisco Harbour. 6 p.

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RAILWAY AGE GAZETTE

Vol. 63. No. 1. July 6, 1917.

1. American Society for testing Materials. 4 p.
2. An attractive concrete highway viaduct. 1½ p.

Vol. 63. No. 2. July 13, 1917.

1. Report of university of Illinois fuel tests. 5 p.

2. Pennsylvania freight house at Indianapolis. 3½ p.
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 1. Knife-edge materials and stresses. 1½ p.
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 1. South end of the New York connecting railroad. 4 p.
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 1. The new impact formula. 1 p.
 2. Bridge work on the Chalco-Yutan cut-off. 3 p.
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 1. Pere Marquette freight station at Chicago. 2 p.
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 1. Seaminess as a cause of rail failures. 1½ p.
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 1. Second track work on the Union Pacific. 5 p.
 2. Possibilities of a market-train service. 3 p.
 3. Increased utility of modern malleable iron. 3½ p.

RAILWAY GAZETTE

- Vol. XXVI. No. 20. May 18, 1917.
 1. The Datagraph. 5 p.
 2. Characteristics of slag and "chat" or trailing ballast. 1 p.
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 1. On the creep of rails on Indian railways. 1½ p.
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 1. Resistance of passenger cars. 2 p.
 2. Tests of corrugated culvert pipe under a sand bed. 5 p.
 3. Japanese and British Railway operation compared. 2 p.
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 1. Biddle's automatic train control. 2½ p.
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 1. Improvements at Jamaica, Long Island railroad. 4 p.
 2. Methods of keeping records of wooden sleepers. 2½ p.
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 1. Improvements at Jamaica, Long Island railroad. 2½ p.
 2. A modern concrete and brick engine-house at Du Bois, Pa. 1½ p.
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 1. Traffic control on the Great-Northern Railway. 3½ p.
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 1. A wagon-tipping machine with improved features. 2 p.
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 1. Automatic train control, Great Eastern Railway. 2 p.
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 1. The track elevation subways in Chicago. 4½ p.

RAILWAY REVIEW

- Vol. 60. No. 26. June 30, 1917.
 1. Ventilation of the Connaught Tunnel, Canadian Pacific Ry. 4 p.
 Vol. 61. No. 1. July 21, 1917.
 1. New passenger station of the C. M. and St. P. Ry., at Butte, Mont. 3 p.

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 1. New coal pier of the Pennsylvania Railroad at Baltimore. 6 p.
- Vol. 61. No. 8. Aug. 25, 1917.
 1. Magnetic analysis of rails and other steel products. 3 p.

SCHWEIZERISCHE BAUZEITUNG

- Band LXX. No. 5. 4 Aug., 1917.
 1. Die Aufstellung der Hell-Gate-Brücke über den East-River in New York. 3½ p.

SCIENTIFIC AMERICAN

- Vol. CXVII. No. 2. July 14, 1917.
 1. A two-stack gold dredge. 1 p.
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 1. Halifax's new \$30,000,000 docks. 1 p.
- Vol. CXVII. No. 8. Aug. 25, 1917.
 1. The neglected water power of New England. 2 p.

THE ENGINEER

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 1. The Bombay hydro-electric power scheme. No. II. 3 p.
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- Vol. CXXIII. No. 3205. June 1, 1917.
 1. New dry dock at Manchester. 3 p.

THE INDIAN AND EASTERN ENGINEER

- Vol. XL. No. 5. May, 1917.
 1. The railways of India. 4 p.
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 1. Recent construction work at Panama. 2 p.
 2. The semi-circular stone arch of ordinary span. 3 p.

THE RAILWAY ENGINEER

- Vol. XXXVIII. No. 450. July, 1917.
 1. Welding by electric arc in railway shops in America. 1½ p.

THE RAILWAY MAGAZINE

- Vol. XLI. No. 242. August, 1917.
 1. The Panama Railroad. 7 p.

WATER AND WATER ENGINEERING

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1. The measurement of water by means of the moving diaphragm. 2 p.
2. Irrigation in Southern Alberta. 4½ p.
3. Aerial wire ropeways. 3½ p.

Vol. XIX. No. 223, July 16, 1917.

1. Gauging flow of water by chemical means. 2½ p.
2. American Waterworks Association convention. 4½ p.
3. Durability of concrete in alkali soil. 1½ p.