

- Wallis-Taylor, A. J.—The preservation of wood. 372 P., 119 illustrations, 9×6×1 $\frac{3}{4}$, cloth boards. William Rider & Son, Ltd., London. Price: 10 s. 6 d. net.
- Webb, W. L. & Fish, J. C. L.—Technic of surveying instruments and methods. 325 P., illustrated, 4×6 $\frac{1}{2}$, cloth. John Wiley & Sons, New York. Price: \$2.00 net.
- Wittenbauer, F.—Aufgaben aus der Technischen Mechanik. 586 Aufgaben nobst Lösungen und einer Formelsammlung. Mit 396 Textfiguren. Julius Springer, Berlin. 1917. Preis: geh. 9 M., geb. M. 10.20.
- A plan of organization for New York City. 44 P., illustrated, 7×10, paper. Municipal reference library, 512 Municipal Building, New York City.
- Hydraulic conversion tables and convenient equivalents. Water-Supply Paper 425-c. U. S. Geological Survey. Washington, D. C. 94 P., 6×9, paper.
- Locomotive hand-book: Compiled by American Locomotive Co. 195 P., illustrated 4×6, leather. Price: 75 cents.
- Shape book: Containing profiles, tables, and data appertaining to the shapes, plates, bars, rails and track accessories. 351 P., illustrated, 5×8, leather. Carnegie Steel Company, Pittsburgh, Penn. Price: \$1.00.

内外諸雜誌主要題目

工學

- 第四卷 第十二號(第四十四號) 大正六年十二月十日.
1. 東京市改良道路ノ成績. 六頁.
 2. 早川橋架換工事. (二). 八頁.
- 第五卷 第一號(第四十五號) 大正七年一月十日
1. 東京市ノ市區改正ヲ論ス. 十頁.
 2. 聶水橋改築工事概要. 三頁.

工學會誌

- 第四百十一卷. 大正六年十一月二十日.
1. 隅田川口改良工事. (其三). 六十七頁.
- 第四百十二卷. 大正六年十二月十五日.
1. 請負業者ノ眼ニ映シタル鐵道工事. 十頁.
 2. 隅田川口改良工事. (其四). 二十三頁.

工業雜誌

- 第四十七卷. 第六百十八號. 大正六年十二月二十日.
1. 大ニ水源地ノ涵養ヲ要ス. 四頁.
 2. 海ニ起ル波ハとるこいど波カ或ハすと一くす波カ. 壹頁.
- 第四十八卷. 第六百十九號. 大正七年一月五日.
1. 溫度ノ不同ニ依リ生スル鋼ノ内力ニ就テ. 十四頁.

第四十八卷 第六百二十號 大正七年一月二十日

1. 溫度ノ不同ニ依リ生スル鋼ノ内力ニ就テ. 八頁.
2. 基礎杭ノ荷重試験報告. 四頁.

帝國鐵道協會會報

第十八卷 第十一號 大正六年十一月二十五日

1. 戰爭ト歐米各國ノ鐵道交通. 十二頁.
2. 東京市ノ交通機關ニ就テ. 二十四頁.

第十八卷 第十二號 大正六年十二月二十五日

1. 列車荷重ニ就テ. 十九頁.
2. 青島ノ近狀ニ就テ. 十二頁.

BULLETIN OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION

Vol. 19. No. 198. August, 1917.

1. The relation of resin to the lasting properties of Southern pine.

Vol. 19. No. 199. September, 1917.

1. Mill inspections of rail in 1915 and 1916. 10 p.
2. Rail failure statistics for 1916. 32 p.
3. Influence of gage length on elongation in drop test of rails. 3 p.
4. Tests of manganese steel rails. 20 p.
5. Discussion of impact formula: 15 p.

CEMENT WORLD

Vol. 11. No. 11. November, 1917.

1. Concrete plants for Pennsylvania R. R. terminal construction. 4 p.

CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. XII. No. 10. October, 1917.

1. Concrete railway sleepers. 11 p.
2. Stresses in rectangular frames. 6 p.
3. Reinforced concrete and water tower construction in Holland (Concluded). 8 p.

Vol. XII. No. 11. November, 1917.

1. Stresses in rectangular frames. 7 p.
2. Reinforced concrete gas mains. 5 p.

ENGINEERING

Vol. CIV. No. 2702. Oct. 12, 1917.

1. The Barcelona traction, light and power company. 3 p.

Vol. CIV. No. 2703. Oct. 19, 1917.

1. The Quebec Bridge. 1 p.
2. Hardness and hardening. 2 p.
- Vol. CIV. No. 2704. Oct. 26, 1917.
 1. The effect of intrusive water on the stability of a masonry dam. 2 p.
 2. Handling materials automatically with skip hoists. 5 p.
 3. The Quebec Bridge. 2 p.
- Vol. CIV. No. 2705. Nov. 2, 1917.
 1. Keadby railway and highway scherzer roller lift bridge. 10 p.
- Vol. CIV. No. 2706. Nov. 9, 1917.
 1. Keadby Railway and highway scherzer roller lift bridge. 3 p.
- Vol. CIV. No. 2707. Nov. 16, 1917.
 1. Dipper dredgers on the Panama Canal. 2 p.
- Vol. CIV. No. 2708. Nov. 23, 1917.
 1. Keadby Railway and highway scherzer roller lift bridge. 8 p.
- Vol. CIV. No. 2709. Nov. 30, 1917.
 1. Long columns carrying distributed loads. 2½ p.

ELECTRIC RAILWAY JOURNAL

- Vol. 50. No. 17. Oct. 27, 1917.
 1. Storage yard served by a single 100-ft. derrick. 4½ p.
- Vol. 50. No. 20. Nov. 17, 1917.
 1. New 60 cycle signal installation on the T. H., I. & E. 3 p.
- Vol. 50. No. 21. Nov. 24, 1917.
 1. Model substation for Chicago residence district. 6 p.
- Vol. 50. No. 22. Dec. 1, 1917.
 1. Automatic power plant installed at cedar rapids. 5½ p.
 2. Science of the preparation of car axle steel. 4 p.
- Vol. 50. No. 23. Dec. 8, 1917.
 1. Catenary overhead construction in Montreal Tunnel. 5 p.

ENGINEERING NEWS-RECORD

- Vol. 79. No. 15. Oct. 11, 1917.
 1. The Catskill Aqueduct builders—An appreciation. 4½ p.
 2. States spent \$288,000,000 on Roads and bridges in 1916. 1 p.
 3. Reinforced concrete in sea water fails from corroded steel. 4½ p.
- Vol. 79. No. 16. Oct. 18, 1917.
 1. Special features of the Miami conservancy contracts. 3½ p.
 2. Selection of materials for sea-water concrete. 4 p.
 3. To meet state laws Austin proposes throughgoing sewage works. 4½ p.
- Vol. 79. No. 17. Oct. 25, 1917.
 1. Bridge spans moved endwise to rest on new piers. 3 p.
 2. St. Maurice River-control works are nearing completion. 6 p.
 3. Good workmanship necessary to make sea-water concrete safe. 5 p.
- Vol. 79. No. 18. Nov. 1, 1917.
 1. Tests show advantages of laying brick directly on concrete base. 3 p.
 2. Floating foundations carry two concrete buildings. 2 p.
 3. Old brick road resurfaced with thin-base monolithic brick. 1 p.

4. Field tests made on oil treatment of wood against marine borers. 5 p.
 5. Conclusions on activated-sludge process at Milwaukee. 5 p.
 6. Steps in turbine-runner design that engineers should know. 3 p.
- Vol. 79. No. 19. Nov. 8, 1917.
1. Flexible-joint precast concrete pipe laid below water in Lake Erie. 4 p.
 2. War's influence on British road work discussed in report. 3 p.
 3. Twenty-four designs for Salem Bridge wasted before commissioners agreed. 2 p.
- Vol. 79. No. 20. Nov. 15, 1917.
1. Large cold-storage building introduces new problems in concrete design. 6 p.
 2. Low movable dam has sloping ends with triangular gates. 1 p.
 3. Hard pavements are replacing dusty adobe roads in Western Texas. 2½ p.
 4. St. Paul concrete reservoir has unique side-wall design. 3 p.
 5. Standard plans for army camp sewage disposal. 2 p.
- Vol. 79. No. 21. Nov. 22, 1917.
1. Hard-surface pavements for state highways. 2½ p.
 2. Cableway handles relining of Cleveland water basin. 2½ p.
 3. Screens, filters and humans tanks for Indianapolis. 2 p.
 4. Laurentide power developed after war's interruption. 4 p.
- Vol. 79. No. 22. Nov. 29, 1917.
1. French engineers span Aisne River under shell fire. 3 p.
 2. Ultra-violet rays finish treatment of Henderson water-supply. 2 p.
- Vol. 79. No. 23. Dec. 6, 1917.
1. How construction was speeded up by doing three jobs at one time. 3 p.
 2. Locomotive crane sprang from small beginnings. 3 p.
 3. Concentrated pressure causes many pavement failures. 1 p.
 4. Handling freight on New York's new steamship pier. 2½ p.
 5. A new method of constructing difficult foundations. 1½ p.
 6. Manganese in the water supply of pierre, South Dakota. 2 p.

INDUSTRIAL MANAGEMENT (THE ENGINEERING MAGAZINE)

- Vol. LIV. No. 2. November, 1917.
1. Industrial power on the Pacific coast. 10 p.
 2. Design of special slide rules.—I. 8 p.

JOURNAL OF THE WESTERN SOCIETY OF ENGINEERS

- Vol. XXII. No. 7. September, 1917.
1. The 186 foot bascule bridge of the C. & N. W. Ry. at Deering. 26 p.
 2. The Preparation of rock products. 12 p.
 3. Survey methods used on the Wilson Avenue water tunnel, Chicago, Ill. 13 p.

LE GENIE CIVIL

Tome LXXI. No. 16. 20 Oct., 1917.

1. L'installation pour le chargement du charbon du port de Durban (Afrique du Sud). 4 p.
- Tome LXXI. No. 17. 27 Oct., 1917.
1. Ponts flottant: sur le Mississippi pour le passage du Milwaukee and St. Paul Railway. 4½ p.
- Tome LXXI. No. 18. 3 Nov., 1917.
1. Les chemins de fer aux États-Unis. Impressions recueillies au cours d'une visite. 5 p.
- Tome LXXI. No. 19. 10 Nov., 1917.
1. Les installations du service d'eau potable de la ville de Bangkok. 6 p.
- Tome LXXI. No. 20. 17 Nov., 1917.
1. L'achèvement du pont de Québec. 4 p.

MUNICIPAL JOURNAL

- Vol. XLIII. No. 16. Oct. 18, 1917.
1. Speeding up concrete road job by bonus system. 2½ p.
2. Activated sludge process for stockyards. 2 p.
3. Drop manholes for sewers. 2 p.
- Vol. XLIII. No. 17. Oct. 25, 1917.
1. New Jersey concrete road construction. 1½ p.
2. Sand road experiments in Wisconsin. 1 p.
- Vol. XLIII. No. 18. Nov. 1, 1917.
1. The Chouteau avenue viaduct. 3 p.
- Vol. XLIII. No. 20. Nov. 15, 1917.
1. Laying iron pipe sewer in White Plains. 2 p.
- Vol. XLIII. No. 21. Nov. 22, 1917.
1. Concrete highway construction in Illinois. 4 p.
- Vol. XLIII. No. 22. Nov. 29, 1917.
1. Sewerage system for a small town. 2 p.
- Vol. XLIII. No. 23. Dec. 6, 1917.
1. Great falls water purification and softening plant. 3 p.
- Vol. XLIII. No. 24. Dec. 15, 1917.
1. Sewage disposal for a New York area. 2 p.
2. Cracks in concrete pavements. 1 p.

PROFESSIONAL MEMOIRS

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

- Vol. IX. No. 48. Nov.-Dec., 1917.
1. Military roads on the Island of Oahu. 14 p.
2. Road work on the punitive expedition into Mexico. 25 p.

RAILWAY AGE GAZETTE

- Vol. 63. No. 15. Oct. 12, 1917.
1. Railway Fire Protection Association meets. 4 p.
2. The progress of the Japanese Railroads. 6 p.

3. Dragline used successfully in track depression. 3 p.
 4. Teredo destroys improperly treated piles. 2 p.
- Vol. 63. No. 16. Oct. 19, 1917.
1. Automatic straight air brake system. 4 p.
 2. Bridge and Building Association convention. 6 p.
- Vol. 63. No. 17. Oct. 26, 1917.
1. Pennsylvania builds hump yard at Indianapolis. 4 p.
- Vol. 63. No. 18. Nov. 2, 1917.
1. A study of the car interchange situation; 4½ p.
 2. Electric section added to a mechanical interlocking plant. 1½ p.
 3. The progress of the Japanese Railroads. 6 p.
 4. A study of wood preservatives and marine borers. 3½ p.
- Vol. 63. No. 19. Nov. 9, 1917.
1. Second track construction on Southern Railway. 8 p.
- Vol. 63. No. 20. Nov. 16, 1917.
1. Bridge work on the Hannibal line cut-off. 2 p.
- Vol. 63. No. 21. Nov. 23, 1917.
1. The employment of women in railroad work; Stuart Bready. 4 p.
 2. Terminal developments at Vancouver. 5 p.
- Vol. 63. No. 22. Nov. 30, 1917.
1. A study of transverse fissures in rails. 3 p.
- Vol. 63. No. 23. Dec. 7, 1917.
1. The Commerce Commission's annual report. 6 p.
 2. A new and novel system of vessel unloading. 2 p.
 3. Handling freight faster with fewer men. 3 p.

RAILWAY GAZETTE

- Vol. XXVII. No. 14. Oct. 5, 1917.
1. Grade crossing elimination at Cleveland. 1½ p.
 2. A new method of re-rolling rails. 1 p.
- Vol. XXVII. No. 15. Oct. 12, 1917.
1. Railway accident statistics. 1½ p.
- Vol. XXVII. No. 16. Oct. 19, 1917.
1. Some impressions of continental signalling practice. 2½ p.
- Vol. XXVII. No. 18. Nov. 2, 1917.
1. Wooding's automatic train-stop. 2½ p.
- Vol. XXVII. No. 20. Nov. 16, 1917.
1. Concealing the headlights of standing trains. 1 p.
- Vol. XXVII. No. 21. Nov. 23, 1917.
1. Alternating current automatic signals on the Southern Railway, U. S. A. 1½ p.
 2. Quebec Bridge central span hoisted. 3 p.
- Vol. XXVII. No. 22. Nov. 30, 1917.
1. The scientific selection and location of signals. 2 p.

RAILWAY REVIEW

- Vol. 61. No. 18. Nov. 3, 1917.
1. Reinforced concrete snow sheds, Union Pacific Railroad. 2 p.

- Vol. 61. No. 19. Nov. 10, 1917.
1. Concrete casing for protection of steel structures. 3 p.
- Vol. 61. No. 20. Nov. 17, 1917.
1. Reinforced concrete snow sheds, Union Pacific Railroad. 2 p.
- Vol. 61. No. 22. Dec. 1, 1917.
1. Mechanical transfer station, Pittsburgh & Lake Erie Railroad, Haselton, Ohio. 1½ p.
- Vol. 61. No. 23. Dec. 8, 1917.
1. Reconstruction of the Oldham road freight station, at Manchester, England. 5 p.
- Vol. 61. No. 24. Dec. 15, 1917.
1. New Federal Street freight station of the Pennsylvania Railroad at Philadelphia. 7 p.
2. The bell tracklaying machine. 2 p.

SCHWEIZERISCHE BAUZEITUNG

- Band LXX. No. 9. 1. Sept., 1917.
1. Kolk-Erfahrungen und ihre Berücksichtigung bei der Ausbildung beweglicher Wehre. 3 p.
- Band LXX. No. 10. 8. Sept., 1917.
1. Kolk-Erfahrungen und ihre Berücksichtigung bei der Ausbildung beweglicher Wehre. 3½ p.
- Band LXX. No. 11. 15. Sept., 1917.
1. Kolk-Erfahrungen und ihre Berücksichtigung bei der Ausbildung beweglicher Wehre. 2 p.
- Band LXX. No. 12. 22. Sept., 1917.
1. Die neue Boquilla-Talsperre in Mexico. 4 p.
- Band LXX. No. 13. 29. Sept., 1917.
1. Zugspannungen des Betons im Eisenbetonbau. 3 p.
- Band LXX. No. 14. 6. Okt., 1917.
1. Das Versuchswesen in der Praxis des Eisen- und Eisenbetonbaues. 5 p.
- Band LXX. No. 15. 13. Okt., 1917.
1. Das Versuchswesen in der Praxis des Eisen- und Eisenbetonbaues. 5 p.
- Band LXX. No. 17. 27. Okt., 1917.
1. Das Versuchswesen in der Praxis des Eisen- und Eisenbetonbaues. 5 p.
- Band LXX. No. 18. 3. Nov., 1917.
1. Die Stützung von Dampfkesseln und von Wasserleitungen. 3½ p.
2. Die Sihlüberführung der S. B. B. beim Umbau der linksufrigen Zurichseebahn. 2½ p.
- Band LXX. No. 19. 10. Nov., 1917.
1. Die Wasserkraftanlagen Tremp und Seros der Barcelona Traction, Light & Power Co. 4 p.
- Band LXX. No. 20. 17. Nov., 1917.
1. Neuere Beobachtungen über die Kritischen Umlaufzahlen von Wellen. 3 p.
2. Die Wasserkraftanlagen Tremp und Seros der Barcelona Traction, Light & Power Co. 2 p.
- Band LXX. No. 21. 24. Nov., 1917.
1. Neuere Beobachtungen über die Kritischen Umlaufzahlen von Wellen. 2 p.

2. Die Wasserkraftanlagen Tremp und Seros der Barcelona Traction, Light & Power Co. 3 p.

SCIENTIFIC AMERICAN

- Vol. CXVII. No. 17. Oct. 27, 1917.
1. Meeting New York's insatiable demand for water. (Running a river of mountain water into the city.) 2 p.
- Vol. CXVII. No. 18. Nov. 3, 1917.
1. Weighing freight cars. (How a thin flexible plate does the work of a lever). $1\frac{1}{4}$ p.
- Vol. CXVII. No. 21. Nov. 24, 1917.
1. A liliputian outfit for welding rail bonds. 1 p.
- Vol. CXVII. No. 22. Dec. 1, 1917.
1. Preparing the navy ashore (War work of the bureau of docks and yards).

SCIENTIFIC AMERICAN SUPPLEMENT

- Vol. LXXXIV. No. 2185. Nov. 17, 1917.
1. Hardness and hardening (An important property not yet satisfactorily delimited). 2 p.
- Vol. LXXXIV. No. 2186. Nov. 24, 1917.
1. The human factor in railway electrification (Making an electric locomotive engineer out of a steam locomotive engineer). 2 p.

THE ENGINEER

- Vol. CXXIII. No. 3206. June 8, 1917.
1. Modern high-power locomotive economy in France. 2 p.
2. Harbour improvements at Valparaiso. 2 p.
- Vol. CXXIII. No. 3209. June 29, 1917.
1. Improvements in vacuum brake apparatus. 1 p.
- Vol. CXXIV. No. 3210. July 6, 1917.
1. Practice in bridge and girder yards, from a theoretical standpoint. No. I. $1\frac{1}{2}$ p.
2. The protection of Paris against floods. $2\frac{1}{2}$ p.
3. Locomotive coaling plant at Carlisle. $1\frac{1}{2}$ p.
- Vol. CXXIV. No. 3211. July 13, 1917.
1. Practice in bridge and girder yards, from a theoretical standpoint. No. II. 2 p.
2. Longitudinal sleepers for railways and tramways. 1 p.
- Vol. CXXIV. No. 3212. July 20, 1917.
1. Practice in bridge and girder yards from a theoretical standpoint. No. III. $1\frac{1}{2}$ p.
2. Suspension bridges in New Zealand. 2 p.
- Vol. CXXIV. No. 3213. July 27, 1917.
1. The Tasmanian Great Lake hydro-electric power scheme. 4 p.
2. Concrete roads. 1 p.
- Vol. CXXIV. No. 3214. Aug. 3, 1917.

1. Practice in bridge and girder yards from a theoretical standpoint. No. IV. 2 p.
- Vol. CXXIV. No. 3215. Aug. 10, 1917.
 1. Simple calculations of circular arcs. 1 p.
- Vol. CXXIV. No. 3216. Aug. 17, 1917.
 1. City and suburban electric railways of Sydney. 1½ p.
- Vol. CXXIV. No. 3217. Aug. 24, 1917.
 1. The evolution of the chain-track tractor. No. III. 2½ p.
 2. Transmission of concrete by air and steam. 3 p.
- Vol. CXXIV. No. 3218. Aug. 31, 1917.
 1. The evolution of the chain-track traction. No. IV. 3 p.
- Vol. CXXIV. No. 3219. Sept. 7, 1917.
 1. The evolution of the chain track traction. No. V. 5 p.
- Vol. CXXIV. No. 3220. Sept. 14, 1917.
 1. The evolution of the chain-track traction. No. VI. 4 p.
 2. Submarine tunnel at Boston, Mass. 2½ p.
- Vol. CXXIV. No. 3221. Sept. 21, 1917.
 1. The evolution of the chain-track traction. No. VII. 4 p.
 2. New experiments on shock tests and on the determination of resilience. 2 p.
 3. Hardness and hardening. 1¾ p.
- Vol. CXXIV. No. 3222. Sept. 28, 1917.
 1. The shrinkage allowance for locomotive tires. 2½ p.

THE INDIAN AND EASTERN ENGINEER

- Vol. XLI. No. 3. September, 1917.
 1. Avoidable waste of irrigation water. 2¼ p.
 2. The slides at Panama. 3 p.
 3. Concrete flooring. 3 p.
- Vol. XLI. No. 4. October, 1917.
 1. The slides at Panama. 3 p.
 2. Concrete flooring. 2¼ p.
- Vol. LXI. No. 5. November, 1917.
 1. The restoration of the hill section Assam-Bengal Railway. 4½ p.

THE RAILWAY ENGINEER

- Vol. XXXVIII. No. 454. November, 1917.
 1. The Julian-Beggs automatic stop and train control system. 1½ p.
 2. A stonework destroying fungus. 2 p.
 3. Some impressions of continental signalling practice. 3 p.
- Vol. XXXVIII. No. 455. December, 1917.
 1. Vanadium in steel making. 2 p.
 2. Unit members in reinforced concrete construction. 3 p.

THE RAILWAY MAGAZINE

- Vol. XLI. No. 246. December, 1917.
 1. Recent American locomotives for switching services. 8 p.

WATER AND WATER ENGINEERING

Vol. XIX. No. 225. Sept. 15, 1917.

1. Use of the cement gun in water engineering. 6 p.

Vol. XIX. No. 227. November, 15, 1917.

1. Some notes upon fish life in relate on to river pollution. 3 p.
2. The flow of water in siphons. 2 p.