

Illustrated.

Water-supply paper, U. S. Geological Survey—Washington, D. C. 6×9, illustrated, paper. No. 356: Surface water supply of the United States, 1913; Part VI. Missouri River basin. 291 P. No. 375-B: Ground water in Paradise Valley, Arizona.—By O. E. Meinzer and A. J. Ellis. 26 P. No. 375-C: The relation of stream gaging to the science of hydraulics.—By C. H. Pierce and R. W. Davenport. 10 P. No. 375-D: Ground water in Big Smoky Valley, Nevada.—By O. E. Meinzer. 31 P. No. 375-E: A method of correcting river discharge for a changing stage.—By Benjamin E. Jones. 10 P.

内外諸雜誌主要題目

發電水力

第七號. 大正四年九月十五日.

1. 日本ニ於ケル水力電氣事業ノ發達. (其三)
2. 未開業一萬馬力以上ノ水力發電所ノ要項.
3. 大正四年上半期ノ水力電氣. (上)

第八號. 大正四年十月十五日.

1. 大正四年上半期ノ水力電氣. (下)

工學

第二卷. 第十號. 大正四年十月十日.

1. 鐵筋混凝土桁ノ算法.
2. もるたる造臺船.
3. 地震ト耐震橋脚.
4. 東京市内河川大浚渫事業ノ概況. (二)
5. 吳服橋. (其五)
6. 請負ノ研究. (十七)

工學會誌

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第三百八十七卷 大正四年九月十五日。

1. 桂川電力株式會社第一水路工事概要。

第三百八十八卷 大正四年十月十四日。

1. 鐵筋混凝土煙突。

ANNALES DES PONTS ET CHAUSSÉES

Tome XXV. Vol. I. Janvier-Février, 1915.

1. Viaduc sur l'étang de Caronte. (Ligne de Miramas à l'Estaque)
2. Etude sur le calcul des voûtes en maçonnerie.
3. Note sur la compression, le refoulement et la résistance dynamique des Crushers.

BETON u. EISEN

XIV Jahrgang. Heft I. 4. Januar, 1915.

1. Zerlegbare Brücken für Kriegsstrassen und sonstige Notbrücken. (Hierzu Tafel III.)
2. Eine eigenartige Eisenbetonpfalgründung. (Hierzu Doppeltafel IV/V. —Schluss statt Fortsetzung aus Heft XX. 1914.)
3. Zur Frage der Lastverteilung bei Plattenbalkenkonstruktionen.

XIV Jahrgang. Heft II/III. 3. Februar, 1915.

1. Brücke über die Gattleubamündung.
2. Bestimmung der Eisenquerschnitte in doppelt bewehrten Verbundquerschnitten bei gegebener Konstruktionshöhe.
3. Zur Frage der Lastverteilung bei Plattenbalkenkonstruktionen. (Schluss aus Heft I.)

XIV Jahrgang. Heft IV/V. 3. März, 1915.

1. Erfahrungen an neueren amerikanischen Betonstrassen. (Hierzu Tafel VI.)

2. Die Erweiterung des Wasserwerkes der Stadt Magdeburg.
3. Einfache Formeln und Kurventafeln zur Berechnung zylindrischer Behälterwände mit rechteckigem, dreieckigem oder trapezförmigem Wandschnitt. (Hierzu Tafel VII.)
4. Neuere amerikanische Versuche zur Bestimmung der Haftfestigkeit zwischen Beton und Eisen.

XIV Jahrgang. Heft VI. 1. April, 1915.

1. Die Erweiterung des Wasserwerkes der Stadt Magdeburg. (Schluss aus Heft IV/V.)
2. Erfahrungen an neueren amerikanischen Betonstrassen. (Schluss aus Heft IV/V.)
3. Erfahrungen an allen Zement-Makadam-Strassen in Norddeutschland.
4. Eine bequeme Dimensionierungsformel für f_c .
5. Neuere amerikanische Versuche zur Bestimmung der Haftfestigkeit zwischen Beton und Eisen. (Fortsetzung aus Heft IV/V.)

XIV Jahrgang. Heft VII/VIII. 3. Mai, 1915.

1. Zwei Steifrahmenbrücken in Eisenbeton.
2. Bemerkenswerte Betonfundierungen im Hüttenbetrieb.
3. Berechnung von Tragwerken auf elastischer Unterlage.
4. Neuere amerikanische Versuche zur Bestimmung der Haftfestigkeit zwischen Beton und Eisen. (Fortsetzung aus Heft VI.)
5. Ufersicherungen aus Beton am Missourifluss und an seinen Nebenflüssen.
6. Die Berechnung von Kreisgewölbe-Schwergewichts-Sperrmauern, gezeigt am Beispiel der Halligan-Sperrmauer am Cache la Poudre River, Colorado.

XIV Jahrgang. Heft IX/X. 3. Juni, 1915.

1. Das neue Verwaltungsgebäude der chemischen Fabrik von E. Merck in Darmstadt.
2. Erfahrungen mit Eisenbetonschwellen.

3. Weitere Untersuchungen von Eisenbetonsäulen.
4. Neuere amerikanische Versuche zur Bestimmung der Haftfestigkeit zwischen Beton und Eisen. (Schluss aus Heft VII/VIII.)
5. Der Schutz des Eisens durch Beton gegen Rost.
6. Zur Berechnung kontinuierlicher Träger unter Berücksichtigung der Voutenwirkung.

XIV Jahrgang. Heft XI. 3. Juli, 1915.

1. Ummantelte Spundwandisen.
2. Kritik und Richtigstellung der gebräuchlichen Methoden zur Berechnung von Eisenbetonquerschnitten auf Biegung und Druck.
3. Beitrag zur Statik der Stützengruppen und Traggestelle.
4. Wirtschaftliche Bemessung von Eisenbetonquerschnitten unter exzentrischem Druck.
5. II. Weitere Versuche mit Säulen.

XIV Jahrgang. Heft XII/XIII. 3. August, 1915.

1. Kritik und Richtigstellung der gebräuchlichen Methoden zur Berechnung von Eisenbetonquerschnitten auf Biegung und Druck. (Fortsetzung und Schluss aus Heft XI.)
2. Die Rammwirkung im Erdreich, Versuche auf neuer Grundlage.
3. Maschinelle Baustelleneinrichtungen.
4. Weitere Versuche mit Säulen. (Fortsetzung aus Heft XI.)

CASSIER'S ENGINEERING MONTHLY

Vol. 48. No. 3. September, 1915.

1. Allowance for impact in bridge design.

CEMENT WORLD

Vol. IX. No. 5. Aug. 15, 1915.

1. Hydrated lime in concrete.
2. Equipment for handling concrete. (Lessons drawn from experience as

to varying requirements of mechanical plant for the concrete contractor.)

3. Great reinforced concrete dam in Maine Forest. (Unusual conditions met and overcome in an isolated location.)
4. Concrete bridge in Oklahoma. (County structure of artistic lines and great strength recently thrown across the North Canadian River near Woodward, Okla.)
5. Reinforcement of concrete paving. (Recommendations of modern practice bearing on this important problem.)

Vol. IX. No. 6. Sept. 15, 1915.

1. Pacific locks of the Panama Canal.
2. Des Moines Bridge of unique design.
3. Waterproofing masonry.
4. Concrete country roads.

CONCRETE AND CONSTRUCTIONAL ENGINEERING

Vol. X. No. 8. August, 1915.

1. Editorial notes: L. C. C. regulations for reinforced concrete construction.
2. Influence lines for beam deflection.
3. The microscope as an aid in proportioning concrete for strength.
4. Some concrete bridges on the Columbia Highway, U. S. A.
5. Lime concrete in the East.

Vol. X. No. 9. September, 1915.

1. The effect of reinforced concrete upon architectural design.
2. London's reinforced concrete regulations (As revised.)
3. The microscope as a check on construction. (IV.)
4. Concrete in gate structures for irrigation Canals.
5. A concrete pile holder foundation.

Vol. 46. No. 8. Aug. 21, 1915.

1. Safety of trains on the Chicago Elevated.

Vol. 46. No. 9. Aug. 28, 1915.

1. Cleveland builds four operating stations.

Vol. 46. No. 12. Sept. 18, 1915.

1. From traffic study time-table.
2. Autos and the electric car.

Vol. 46. No. 13. Sept. 25, 1915.

1. International Engineering Congress at San Francisco.
2. Dynamite explosion causes new subway cave-in New York.

ENGINEERING

Vol. C. No. 2587. July 30, 1915.

1. The transportation of débris by running water.
2. Canal bridges.

Vol. C. No. 2588. Aug. 6, 1915.

1. Swing pontoon bridge over the Panama Canal.
2. Canal bridges.

Vol. C. No. 2589. Aug. 13, 1915.

1. The Panama Canal. No. XV.

Vol. C. No. 2591. Aug. 27, 1915.

1. Pressure-scraping of water-mains.

Vol. C. No. 2592. Sept. 3, 1915.

1. The Panama Canal. No. XVI.
2. New graving dock at Ferrol Dockyard.

Vol. C. No. 2593. Sept. 10, 1915.

1. Elasticity of thin plates under the action of a uniformly distributed load.
2. Hydraulic coal-tips at Barry Docks.

Vol. C. No. 2594. Sept. 17, 1915.

1. Reinforced-concrete T beams; strength of webs in shear.

ENGINEERING NEWS

Vol. 74. No. 9. Aug. 26, 1915.

1. Coast erosion and protection on Long Island and New Jersey. II.
2. Reinforced-concrete tower tank at Middleborough, Mass.
3. Springfield Water-Works. I.
4. Testing surveyors' tapes by Canadian Government.
5. Shipping piers in Southwark district of Philadelphia.

Vol. 74. No. 10. Sept. 2, 1915.

1. Architecture of Kensico Dam.
2. Coast erosion and protection on Long Island and New Jersey. III.
3. Springfield Water-Works. II.
4. Difficulties overcome in sinking a deep well.

Vol. 74. No. 11. Sept. 9, 1915.

1. Fast concreting on Brooklyn-Brighton Viaduct, Cleveland.
2. Double-deck freight station at Pittsburgh.
3. Building the earth embankment for Hill View Reservoir.

Vol. 74. No. 12. Sept. 16, 1915.

1. Building the Mathis Dams. I.
2. Track elevation at Lynn, Mass.
3. Three years' growth of street traffic in Newark, N. J.

Vol. 74. No. 13. Sept. 23, 1915.

1. Revised cross-sections for Illinois roads.
2. Building the Mathis Dams. II.
3. Laying street-railway track without ties.
4. Automatic cab-signal and train-stop system.
5. Color used in hydraulic tests of power plants.

Vol. 74. No. 14. Sept. 30, 1915.

1. Rebuilding elevated railways in New York City. I.

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2. Development of ultra-violet water disinfection.
3. City planning in Queens Borough, New York. I.
4. Kansas City maintains open asphalt specifications.
5. Placing masonry for the Elephant Butte Dam, New Mexico.
6. Subway timbering accidents; two New York streets fall.

Vol. 74. No. 15. Oct. 7, 1915.

1. Flooding and recovery of the Astoria Tunnel. I.
2. Newark terminal to relieve traffic congestion.
3. Rebuilding elevated railways in New York City. II.
4. City planning in Queens Borough, New York. II.
5. Albany sewage-disposal works.
6. Concreting methods and records, Elephant Butte Dam.

ENGINEERING RECORD

Vol. 72. No. 8. Aug. 21, 1915.

1. Belt conveyors will help simultaneous driving and lining of air tunnel.
2. Circular sewer sections versus egg-shaped and horseshoe cross-sections.
3. Railroad's maintenance expenses allocated between freight and passenger services.
4. Track renewal discloses perfect condition of 14-year-old granite pavement.
5. Pile tests indicate type of substructure for technology buildings.

Vol. 72. No. 9. Aug. 28, 1915.

1. Unit construction system applied to a three-mile concrete viaduct to reduce cost.
2. Time and shrinkage affect stresses and deflections of reinforced-concrete beams.
3. Elastic curve applied to the design of the Sciotoville Bridge.

Vol. 72. No. 10. Sept. 4, 1915.

1. Air-bound filters the chief difficulty in operating Wilmington's water

purification plant.

2. Rotary screens remove macro-organisms from Denver's Lake Water Supply.
3. Concrete cut from actual structures stronger than field-sample specimens.

Vol. 72. No. 11. Sept. 11, 1915.

1. Committee outlines best methods for sewage works operation.
2. Decoration of stored water is due to bleaching by sunlight and oxidation.
3. Longleaf pine distinguished visually from loblolly or shortleaf.
4. Graphical analysis of arches with fixed ends greatly simplified.

Vol. 72. No. 12. Sept. 18, 1915.

1. Mitering lock gate at Keokuk presents novel features.
2. Self-propelled compressed-air plant lines Sandy Ridge Tunnel under traffic.
3. Wicket gates the logical development for hydraulic turbine regulation.
4. Mile and a half of track on New York elevated line rebuilt in fourteen days.

Vol. 72. No. 13. Sept. 25, 1915.

1. New plant marks further step in development of Deerfield River, Massachusetts.—Part I, Design.

Vol. 72. No. 14. Oct. 2, 1915.

1. Costs and special features of the new water supply of Victoria, British Columbia.
2. City planning.—how it should be prosecuted—Why it is the engineer's work.
3. Deep tunnel completed in unsound rock solidified by extraordinary grouting.

JOURNAL OF THE AMERICAN WATER WORKS
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Vol. 2. No. 3. September, 1915.

1. The appellate court of the State of New York and the question of allowances for paving over mains in valuation work.
2. Mechanical analyses of sands.

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LE GÉNIE CIVIL

Tome LXVII. No. 8. 21 Août, 1915.

1. Les locomotives électriques pour le halage des navires, dans les écluses du canal du Panama.

Tome LXVII. No. 10. 4 Sept., 1915.

1. Excavateur de faible encombrement pour mines et terrassements.
2. L'installation d'embarquement du charbon de Workington (Angleterre)

Tome LXVII. No. 11. 11 Sept., 1915.

1. Le renforcement du pont de Kirchenfeld, à Berne.

Tome LXVII. No. 12. 18 Sept., 1915.

1. Les nouveaux piers d'accostage de New York.

MUNICIPAL JOURNAL

Vol. XXXIX. No. 10. Sept. 2, 1915.

1. Washington's State highways and Highway Department.
2. Oregon's State highways.
3. California Highway Commission's work.
4. Water and sewer maintenance in New Oregon.
5. Erie Water Works improvements.
6. St. Louis Water Works improvements.
7. Brick and concrete country roads.

Vol. XXXIX. No. 12. Sept. 16, 1915.

1. Drainability of Emscher tank sludge.
2. Concrete road at Winnetka.

Vol. XXXIX. No. 13. Sept. 23, 1915.

1. Lighting city streets.
2. Leakage from lead joints.
3. Wood pipes in New Hampshire.

Vol. XXXIX. No. 14. Sept. 30, 1915.

1. The Portland Viaduct.
2. Determining fineness of cement.
3. Sheet asphalt for Florida roads.

PROFESSIONAL MEMOIRS

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

Vol. VII. No. 35. Sept.—Oct., 1915.

1. The use of outlet for reducing flood heights.
2. The bridge of Spain.
3. Direct lift bridge across Louisville and Portland Canal.
4. A season with the cement gun.

RAILWAY REVIEW

Vol. 57. No. 9. Aug. 28, 1915.

1. Property costs as a factor in rate making.

Vol. 57. No. 11. Sept. 11, 1915.

1. Lining of Sandy Ridge Tunnel, C. C. & O. Ry.

Vol. 57. No. 12. Sept. 18, 1915.

1. Finley yard of the Southern Railway at North Birmingham, Ala.

Vol. 57. No. 13. Sept. 25, 1915.

1. Grade reduction on the Kentucky division of the Illinois Central R. R.
2. The Government's Alaskan Railway.
3. General makeup of track for heavy traffic.

Vol. 57. No. 14. Oct. 2, 1915.

1. Smokeless locomotive operation without special apparatus.

2. Curve-worn rails and derailments.

SCIENTIFIC AMERICAN

Vol. CXIII. No. 8. Aug. 21, 1915.

1. A notable step in the building of New York's great piers. (Cofferdamming the North River.)

Vol. CXIII. No. 9. Aug. 28, 1915.

1. Safety spurs for a railroad grade.
2. A new type of automatic railroad stop.

Vol. CXIII. No. 12. Sept. 18, 1915.

1. America's greatest irrigation project. (Bassano Dam, Southern Alberta, will irrigate 440,000 acres.)

Vol. CXIII. No. 13. Sept. 25, 1915.

1. Submarine for hydrographic work. (Method of discovering dangerous pinnacles in rocky bottoms.)

Vol. CXIII. No. 14. Oct. 2, 1915.

1. Collapse of the subway work on Seventh Avenue. (Possible cause of the accident and the lessons it teaches.)

SCIENTIFIC AMERICAN SUPPLEMENT

Vol. LXXX. No. 2071. Sept. 11, 1915.

1. The irrigation works of India. (Vast engineering schemes by which the dreaded famine scourge has been wiped out.)

Vol. LXXX. No. 2072. Sept. 18, 1915.

1. Ripple marks. (A study of water action on the seashore.)

Vol. LXXX. No. 2074. Oct. 2, 1915.

1. Signaling on railway trains in motion.—I. (Various systems of engine cab signals used in France.)

THE ENGINEER

Vol. CXX. No. 3108. July 23, 1915.

1. The design and construction of aerial ropeway.
2. British portland cement-making machinery. No. XIX.

Vol. CXX. No. 3109. July 30, 1915.

1. British portland cement-making machinery. No. XX.
2. New filtration works for Oldham.

Vol. CXX. No. 3110. Aug. 6, 1915.

1. British portland cement-making machinery. No. XXI.
2. The excess lime method of water purification.

Vol. CXX. No. 3111. Aug. 13, 1915.

1. British portland cement-making machinery. No. XXII.
2. Allowing for impact in bridge calculations.
3. New graving dock at South Shields.

Vol. CXX. No. 3112. Aug. 20, 1915.

1. British portland cement-making machinery. No. XXIII.
2. A cast iron submarine aqueduct.

Vol. CXX. No. 3113. Aug. 27, 1915.

1. New York's new piers.
2. British portland cement-making machinery. No. XXIV.
3. Cost of railway footbridges. No. I.
4. Circulating water screens.

Vol. CXX. No. 3114. Sept. 3, 1915.

1. British portland cement-making machinery. No. XXV.
2. Cost of railway footbridges. No. II.

THE ENGINEERING MAGAZINE

Vol. XLIX. No. 6. September, 1915.

1. The mechanical handling of coal and ashes.

Vol. L. No. 1. October, 1915.

1. The influence of different elements on the corrosion of iron.

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THE INDIAN AND EASTERN ENGINEER

Vol. XXXVII. No. 3. September, 1915.

1. Lime concrete in the East.

THE RAILWAY ENGINEER

Vol. XXXVI. No. 427. August, 1915.

1. Train ferries. (Swedish State Railways).
2. Automatic train control. III.

Vol. XXXVI. No. 428. September, 1915.

1. Tunnels. II.
2. Power interlockings. III.

WATER AND WATER ENGINEERING

Vol. XVII. No. 200. Aug. 16, 1915.

1. Sewage purification and disposal.
2. Relative corrodibilities of grey cast iron and steel.

Vol. XVII. No. 201. Sept. 15, 1915.

1. Hydro-electric developments in Norway.

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