Industrial arts index

Originally published in 1917 by:
H. W. Wilson Co.

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2009
THE

INDUSTRIAL ARTS INDEX

FIFTH ANNUAL CUMULATION

SUBJECT INDEX TO A SELECTED LIST OF ENGINEERING
AND TRADE PERIODICALS FOR 1917

EDITED BY
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INDIANA UNIVERSITY
LIBRARY

THE H. W. WILSON COMPANY
NEW YORK
1917
The Industrial Arts Index completes its fifth volume with this annual number. It began with a small list of about 45 magazines in 1913, the indexing and proofreading being done between the issues of the Cumulative Book Index. It was counted as knitting work—or whatever term may be used to denote the casual task now that knitting has become an absorbing occupation. The first annual number was a volume of 326 pages. The second annual volume contained over a hundred more pages than the first, new magazines having been added. The 1916 annual grew to 530 pages. The indexing was done by the editor of the Cumulative Book Index. Miss Louise Teich assumed the duties of general manager and guardian of the publication, seeing that it kept to the straight and narrow path of accuracy and consistency and common sense. This she has done from the beginning except for some months in 1917 when, Mrs. Neltje Shimer, editor of the Agricultural Index, undertook the task temporarily as an accommodation.

In the summer of 1915 Miss Helen Craig came from the United Engineering Societies Library to assist in the indexing of the magazines. After her resignation in May, 1917, Miss Charlotte Noves, who had been in the library of the General Electric Company, Schenectady, and later in the Reference catalog division of the New York Public Library, undertook the work and has been doing an increasingly large proportion of the indexing until now she is carrying it along. Miss May Carpenter and Miss Emily Anderson also deserve grateful mention for faithful and accurate work in preparation of copy and other processes.

The magazines to be indexed were selected according to our usual plan, by a vote of subscribers. It must be admitted, however, that three magazines that were elected were not included because of the publishers' refusal to send copies for indexing. It has required patience and a good deal of correspondence to persuade the publishers that we are doing them a service in indexing their periodicals. We regret that Metal Industry is not indexed in this number, the publishers having taken us from their mailing list; and although we have succeeded in overcoming their objections the back numbers of the periodical could not be procured in time for indexing in this volume. Several late numbers of Automobile are also lacking.

There have been constant appeals for more frequent issues and the indexing of more magazines, and the publishers of the Index have been perplexed as to how to give subscribers what they need and still put the publication on a paying basis. Our policy has been to keep up the quality of the work, that is to keep the Index thoroughly and to give great care to the accuracy of the references, rather than to extend the work by adding trade papers and printing more frequently. As to the indexing also, it is difficult to have a consistent index at best, but it is almost impossible when subject headings are assigned by different persons. It makes for better service, therefore, if the publication is kept within a limit which makes it possible for one person to do all or practically all of the indexing. On the whole, it seems more serviceable to index the leading magazines carefully than to index a larger number superficially. The large libraries would no doubt prefer that a greater number of magazines should be included and only the longer articles listed, but the small library after paying out of its meager funds for the subscription to a periodical and binding and shelving naturally wants its contents completely indexed and has a right to expect it. The leading magazines moreover usually abstract the most important articles that have appeared in their several fields, including the foreign ones. The indexing of these abstracts therefore gives a key to all the important literature published in both American and foreign magazines on the subjects which the Industrial Arts Index covers. The publishers however are not content to rest without an effort to improve the service. It has seemed best for reasons already mentioned or implied to increase the frequency of issue rather than to increase materially at present the size of the Index. It is purposed, therefore, beginning with 1918, to publish the Industrial Arts Index ten times a year instead of five times and to cumulate according to the plan of the Readers' Guide. Any expression of opinion by our subscribers as to the usefulness of this plan will be carefully considered. It is purposed also to cumulate the annual volumes from 1913 to 1918 in a six-year cumulation to be published in 1919.

M. E. P.
NOTES AND ANNOUNCEMENTS

With the beginning of the new year, the American Lumberman will be added to the list of periodicals included in the Index. This is added in response to numerous requests from subscribers. The periodical is a weekly, published in Chicago. The subscription price is $4. A considerable part of the magazine is devoted to trade notes, brief accounts of association affairs, and news of temporary interest, but there are also long articles of lasting value. The number at hand contains the following articles: "Our Friend, the Building Loan Association," "Knowing Costs in a Planing Mill," "Evolution of Hardwoods," "Glazed Sash Costs," "Protecting the Bottoms of Wooden Ships."

Edward N. Hurley, vice-chairman of the Federal trade commission, has this to say on trade journals: "American business men do not realize the value which trade journals and technical magazines may be to them in increasing the efficiency of their factories and in giving them a broad and comprehensive view of their business. Many foreign manufacturers contribute articles to these journals on phases of the business with which they are most familiar. Such articles are bound to be helpful and have a constructive effect. Our trade journals and technical papers are the best in the world and they should be encouraged and supported by our business men. Copies should be placed where employees can see them and they should be urged to read and study them. These papers are preaching the gospel of sound business on practical lines and are helpful not only to business but to the country as a whole."

The Highway Contractor and Road Builder, a monthly publication of the New York State Road Builders’ Association has been purchased by the E. L. Powers Co. and merged with Good Roads. The Highway Contractor was the official bulletin of the New York State Road Builders’ Association, the Connecticut General Contractors Association, the Massachusetts Highway Association and the New Hampshire Good Roads Association. The news of these societies will now appear in Good Roads on the second Saturday of each month and that issue may be subscribed for separately. There has been no change in the policies or in the character of the publication.

In order to provide subscribers with the very latest information on current events in the gas field, the American Gas Engineering Journal has reduced the time elapsing between the closing of the forms and the mailing of the copies to twenty-four hours. A new department, "Mechanizing gas," is to contain articles on the mechanical side of the industry, written by men actively engaged in selling gas.

The United Engineering Society has added to its collection on engineering history a valuable copy of the "Encyclopédie, ou Dictionnaire Raisonné des Sciences, des Arts et des Métiers." This is the third edition published in Geneva, 1777-79.

In the November number of Factory is a brief editorial with the heading, "Books for Industrial Soldiers." It is suggested that at this time, when the value of books is being emphasized by the campaign for army libraries, it may be well to expand the factory library and advertise it more widely.

Bibliographies

A "List of references on business libraries and the relation of the business library to the business man" has been compiled by H. H. B. Meyer, Chief Bibliographer at the Library of Congress. It was published in the November number of Special Libraries. The list is alphabetically arranged and contains 99 references to periodical articles, bulletins and books.

A selected bibliography of articles on titaniuim, in German, French, English and American periodicals, appeared in the Journal of the Franklin Institute for December.

In the Iron Age for November 4, is a long bibliography on the subject of plastic metal deformation, extrusion, rolling, punching, shearing and other processes in the mechanical working of metals. The list was compiled by E. C. Buck. It is arranged chronologically, covering the years 1835-1917. The periodicals and books referred to are French, English, German, Italian and American.

In Metallurgical and Chemical Engineering for December 1, is a bibliography by Mr. Buck on the "Manufacture of ferromanganese," the references covering English, German, American and French periodicals, books, and patents for the years 1877-1917.

Book Notes

"Practical Road Building," by Charles E. Foote, has been endorsed by the National Highways Association and the American Automobile Association. The first chapter is a sketch of road history. Others treat of road location, grades, drainage, traffic and finance. In part 2, each chapter is devoted to the description of some one form of road construction.

The second volume of the "Mechanical Equipment of Buildings," by Louis A. Harding and Arthur C. Willard, has now appeared. This volume deals with power plants and refrigeration. For the sake of convenience and completeness there have been reprinted here.
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certain chapters from volume 1, which dealt with heating and ventilation theory and its practical application. The index includes references to authorities quoted in the text.

"Applied Motion Study," by Frank B. and Lillian M. Gilbreth aims to show where and how motion study is useful, and the results of its use. The authors consider motion study a means to permanent and practical waste elimination which will result in the betterment of industrial conditions and make us a nation prepared for emergencies.

The Ronald Press Co. has announced the appearance on December 27, of "1918 Income Tax Procedure," by Robert H. Montgomery. This book will cover the income tax, corporation stock tax and excess profits tax, explaining complicated legal points and giving instructions for preparing returns.

A second edition of John Lee Mahin's "Advertising—Selling the Consumer," has been published for the Associated Advertising Clubs of the World. The book grew out of lectures, notes made during class room talks, and editorials written for the Chicago Herald. At the end of each chapter is a list of references, with comments. The subject is not treated from the theoretical side only. Accounts of personal experiences and reproductions of actual advertisements make it of practical value.
List of Periodicals Indexed

Am Gas Light J—See Am Gas Eng J
Am Ind.—American Industries. $1; single numbers 10c. National Manufacturers Co., 30 Church St, New York.
Am Inst Arch J—Journal of the American Institute of Architects. $3.50; single numbers 50c. American Institute of Architects, The Octagon, Washington, D. C.
Am Inst Min E Bul.—Bulletin of the American Institute of Mining Engineers, subs. $12; single numbers $1; to members, public libraries, and educational institutions, $5; single numbers 50c. B. Stoughton, sec., 29 W 39th St, New York.
Arch Rec.—Architectural Record. $3; single numbers 50c. Architectural Record Co., 115 W 49th St, New York.
Automobile—Automobile and Automotive Industries. $2; single numbers 10c. Class Journal Co., 231 W 39th St, New York.
Bdg Age—Building Age. $2; single numbers 25c. Architectural Record Co., 29 W 39th St, New York.
Boston Soc C E J—Journal of the Boston Society of Civil Engineers. $4; single numbers 25c. Society of Civil Engineers, 71 Tonton Temple, Boston.
Collery. See Coal Age.
Concrete—Concrete. $2; single numbers 25c. Concrete-Cement Age Pub. Co., Telegraph Bldg., Detroit, Mich.
Dom Eng.—Domestic Engineering. $2; single numbers 10c. Domestic Engineering Co, 407 S Dearborn St, Chicago.
Econ Geo.—Economic Geography. $2.50; single numbers 60c. Economic Geography Pub. Co., 41 North Pearl St, Lancaster, Pa.
Formerly Electrical Review and Western Electrician.
Elec R & W Elec'n. See Elec R
Engineer.—Engineer. Thick paper ed $2 50s 6d; Canadian subs $1 50s 6d; thin paper ed $1 50s 6d. Canadian subs $1 50s 6d. Engineer, 23 No St, Strand, London, W. C. 2.
Eng & Const.—Engineering and Contracting. $3; Engineering and Contracting Pub. Co., 608 S Dearborn St, Chicago.
Engineering News consolidated with Engineering Record beginning April.
Consolidated with Engineering News beginning April.
Factory.—Factory. $3; single numbers 25c. A. W. Shaw Co., Wabash Av & Madison St, Chicago.
Foundry.—Foundry. $1; single numbers 15c. Ponton Pub. Co., Cleveland, O.
Gas Age.—Gas Age. $2; single numbers 25c. Progressive Age Pub. Co., 52 Vanderbilt Av, New York.
Formerly Progressive Age.
Gen Elec R.—General Electric Review. $2; single numbers 25c. General Electric Co, Scheneckady, N. Y.
Good Roads &—Good Roads news series. $3; single numbers 15c. E. L. Powers Co., 150 Nassau St, New York.
Horseless Age.—Horseless Age. $2; single numbers 10c. Horseless Age Co., 92 Madison Av, New York.
Ind Management.—Industrial Management. $3; single numbers 25c. Industrial Management, 6 E 29th St, New York.
Formerly Engineering Magazine.
LIST OF PERIODICALS INDEXED

Inland P't—Inland Printer. $; single numbers 30c. Inland Printer Co., 625 Sherman St., Chicago.

Int E E J—Journal of the Institution of Electrical Engineers. single numbers 1s. E. & F. N. Spoon, Ltd., 51 Haymarket, London, S. E. 1. Spoon & Chamberlain, 123 Liberty St., New York. The institution premises have been taken over by H. M. Government and the temporary offices are at I, Albemarle Street, London, W. 1. Published monthly since March 1, 1916. The last fortnightly part (no. 257) was dated 1 March, 1916, price 3s 6d.


J Fr Inst—Journal of the Franklin Institute. $; single numbers 50c. Franklin Institute, Philadelphia.


Locomotive—Locomotives. 50c; single numbers gratis; recent bound volumes $1. Hartford Steam Roller Inspection & Insurance Co., Hartford, Conn.


Metal Ind.—Metal Industry new series. $; single numbers 10c. Metal Industry, 99 John St., New York.

The 1917 numbers which have not been included in this volume will be indexed in 1918.


Formerly Railway Age Gazette, Mechanical edition.

Ly R—Railway Review. $; single numbers 15c. Railway Review, 317 S Dearborn St, Chicago; 39 Church St., New York.

Formerly Railway and Engineering Review.


Stevens Ind.—Stevens Indicator. $1.50; single numbers 60c. Stevens Institute of Technology, Hoboken, N. J.

Text World—Textile World Journal. $1.50; single numbers 60c. Stevens Institute of Technology, Hoboken, N. J.


Contributions from the Bureau of Chemistry, Forest Service and Office of Public Roads are indexed.


Sold to individuals by the Superintendent of Documents. $1; single numbers 25c.


U S Nat Advisory Com.—United States National Advisory Committee for Aeronautics. $1 annual report to the National Advisory Committee for Aeronautics; $1 Suppt. of Doc.


Explanations

Book reviews in the Electrical World, Engineering News, and Engineering Record are indexed in the Book Review Digest.

The abbreviations used are bibliog bibliography; cond condensed; cont continued; diag diagram; ill illustrated; por portrait; tr translated or translation or translator. A colon after an initial designates the most usual given name. as A: Augustus; B: Benjamin; C: Charles; D: David; G: George; H: Henry; L: Louis; N: Nicholas; P: Peter; R: Richard; S: Samuel; T: Thomas; V: Victor; W: William.
List of Occasional Pamphlets Indexed

Bureau of railway economics.
Type-written articles.
List of references to books and articles on
the Adamson law of September, 1916
List of references relating to the eight-hour
working day and to limitations of working
hours in the United States with special
reference to railway labor.
Miscellaneous series.
United States. Bureau of Foreign and Domestic
Commerce.
Tariff series.
35. Commercial travelers in Latin America.
   L. Domeratsky.
36. Customs tariff of Chile. L. Domeratsky.
Bulletin.
204. Street railway employment in the
   United States.
218. Accidents and accident prevention in
   machine building. L. W. Chassey and K. E.
   Hanna.
United States. Department of Agriculture.
Circulars.
94. State highway mileage and expenditures
   for the calendar year 1916.
United States. Department of Agriculture.
Farmers' bulletins.
711. The care and improvement of the wood
lot. C. B. Niloton.
748. The windbreak as a farm asset. C. G.
Hart.
808. Drainage of irrigated farms. R. A.
Hart.
862. How to select foods. C. L. Hunt and
   H. W. Atwater.
861. Removal of stains from clothing and
   other textiles. H. I. Lang and A. H.
Whittlesey.
871. Fresh fruits and vegetables as conser-
   vers of other staple foods. C. L. Hunt.
881. Preservation of vegetables by fermenta-
   tion and salting. L. A. Round and H. L.
Lang.
Reports.
114. Some public and economic aspects of
   the lumber industry. W. B. Gresley.
United States. Federal trade commission.
Report on the beet sugar industry in the
United States.
Report on the news-print paper industry,
University of Texas. Bulletin.
1722. Rustler Springs sulphur deposits
   E. L. Perch, Jr.
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Abbott school, Farmington, Maine.

Howard Hippach memorial athletic field; views and plans. Am Arch 111:90 Mr 14 '17


Ability tests
Absent treatment in efficiency tests; bringing the nerves of the battle line into the laboratory. J. R. Bower. Sci Am 117:309-12 Jl 22 '17

Choosing employees by test; strength, speed, and work. 160:6-7 Jl 30 '17

Land, and Dager, W. F. Kembel. U Ind Management 63:47-50 Je '17

Abreusia

Abreusia from nephrotic syneyte; patent. Met & Chem Eng 17:365 B 15 '17

Ammoniacal abreusia; patent. Met & Chem Eng 17:428 O 1 '17

Selecting abreusia for specific uses. W. G. Williams. U Ind Management 61:48-9 Ja '17

See also Grinding and polishing; Pebbles

Absorbent cotton. See Cotton, Absorbent

Absorption

Control of absorption gasoline plants. P. M. Biddulph. Gas Age 39:455-7 My 1 '17


Bar Mines Intl 120:1-4 6 '17

Abstracting

Technical literature research—a plan for better abstracting. G. Aucy. Iron Age 99: 481 F 33 '17

Abutments. See Bridges—Abutments

Abyssinia

Industries and resources

Potash mines in Abyssinia. Sci Am 117:326 S 23 '17

Acciai emissioni


Acceptances

Application of trade acceptances. K. R. Hooker. Textile World 52:1694-5 Mr 10 '17

Dising business under the trade acceptance plan. Horseless Age 40:24-6 Ap 18 '17

Manufacturer and the bank. H. P. Willis. Am Ind 17:26-7 Je '17

Practical application of trade acceptances. Elec R 71:504-5 N 24 '17

Trade acceptance reform. R. H. Tingley, Am Ind 15:21-2 Ag '17

Trade acceptance; what it is and how it works. F. S. Evans. Horseless Age 41:36-7 Ag 18 '17

Trade acceptances. Textile World 52:1186 F 8 '17

Trade acceptances, J. H. Tregoe. Textile World 52:2726-7 My 12 '17

Accident law


See also Workmen’s compensation

Accident prevention. See Safety devices and measures

Accidents

See also Building failures; Explosions; Lightning; Mine accidents; Railroads—Accidents; Safety devices and measures; Street railroads—Accidents

Accidents, industrial


Excerpts (Summary). Iron Age 100: 1201 N 15 '17


Accidents in industry. C. H. Res. Iron Age 98:323 D 7 '16

Accidents on construction; what they cost and how to prevent them. J. J. Rosenthal. U Eng N 15:13-5 Je 1 '17

After-come clinics for injured workmen. C. H. de la Chapelle. U Ind 17:14-8 Mr '17

Analysis of accidents to linemen and groundmen. Elec W 70:806 S 27 '17

Cause and prevention of industrial casualty. H. W. Mowry. U Ind Management 53:177-89 My '17

Engineering revision lessons accidents. L. W. Cheney. Iron Age 100:801-3 S 12 '17


Same. (Regulation of power plants warranted.) Power 48:774 Je 5 '17

Putting injured men back to work: methods employed by Norton co. H. R. Morgan. Iron Tr 41:714-5 O 4 '17

Relation of industrial lighting to safety. C. E. Ouellet. Elec W 89:1153-9 Ja 16 '17


Table of causes of guarding wheel accidents

Foundry 48:364 Ja '17


See also Boiler explosions; Coal mines and mining—Accidents and explosions; Coke ovens—Accidents; Cranes, derricks, etc.—Accidents; Electricity, injuries from; Explosions; First aid in mines and injury; Mine accidents; Mining engineering—Safety measures; Occupations, Dangerous—Plumbing—Accidents; Quarries and quarrying—Accidents; Railroads—Accidents; Safety devices and measures; Workmen’s compensation

Accountants

Accountants and the war. J Account 24:113-19 Ag '17

Accountants’ services in wartime. J Account 28:844-8 My '17


See also Accounting; Cost accounting

Registration

Registration of accountants. J Account 23: 189-9 Mr 17
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Law
South Dakota C. P. A. law. J Account 24:72-5 Jt '17
Discussion. 23:473-4 Jt '17

Accounting
Accounting and investments. E. A. Sallers. J Account 23:146-8 Mr '17
Accounting for scholarships. H. C. Freeman. J Account 24:34-7 O '17
Accounting systems for retail merchants. J. W. Hunter. J Account 24:100-4 Jt '17
Charging labor and material. Factory 19:914-7 D '17
Classification of income and profit and loss accounts. A. L. Tinley. J Account 24:34-8 Ag '17
Contact of commercial law and accounting. B. D. Kribben. J Account 24:38-8 O '17
Invested capital in hopeless puzzle. Iron Tr R 31:1012-13 N '17
Mis-stated current assets. A. S. Fedde. J Account 23:440-4 Jt '17
Quick assets. S. Walton. J Account 24:66-8 Jt '17
Discussion. 24:148-51 Ag '17
Uniform accounting. J Account 23:401-8 Jl '17
See also Bookkeeping; Corporations—Accounting; Cost accounting; Depreciation; Electric railroads—Accounting; Factors; Foundry accounting; Garages—Accounting; Highway accounting; Inventories; Investments—Accumulated Mine accounting; Missionary societies—Accounting; Municipal accounting; Overhead, Payrolls; Printing, Practical—Accounting; Proof figures; Railroads—Accounting; Reserves—Accounting; Stockholders' sinking fund; Submarization; Tanneries—Accounting; Waterworks—Accounting

Standardization of examinations. J Account 24:453-5 D '17

Terminology
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Accumulators. See Storage batteries

Acetanilide

Acetates
Inadequacy of the ferric basic acetate test for acetic acid. L. J. Examiners and B. E. Harris. Am Chem Soc J 30:1316-17 Jl '17

Acetic acid

Acetone
Methyl alcohol and acetone as by-products of the soda pulp industry. J. C. Lawrence. Met & Chem Eng 14:116-17 Ap 15 '17
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Notes on nitrating ketones with an example of acetylation. F. Pope. diaogs Met & Chem Eng 17:206-8 S 15 '17

Acetylene
Acetylene as fuel. Horseless Age 39:Eng sec 1F '15 '17
Alcohols from acetylene. Sci Am S 8:87 Ag '17


Gentianization by gas under pressure. G. C. Langenberg. Hl diag Tr R 6:395-401 Ag 23 '17

Colorimetric determination of acetylene and its application to the determination of water. E. W. Weaver, diag 8 & Bur Sul Brand Bul 13:77-85 Jl '17


Pilling acetylene tanks. J Fr Inst 182:327-8 D '17

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Acetylene lamps
Carbon lamp in blackdamp. Coal Age 11:844, 1051-5, 1132 My 15 '17, Jl '16, 40 '17

Danger in brass carbide lamps. J. B. Stewart. Eng & Min J 104:177 Jl '37 '17

Discussion. J. H. Dickson and C. E. Munroe. 104:396-1 S '17

Sauer. Coal Age 12:331 S 29 '17

Carbon dioxide: use of carbide. J. R. Allardice. Coal Age 11:1169-9 Ja '30 '17

Sauer. Eng & Min J 104:314-15 Ag 4 '17

Data on acetylene mine lamps. Coal Age 13: 581 N 24 '17

Improved portable acetylene light. Hl Munic Eng 3:265 0 '17

McKay heath's lamp. G. R. McKay. diaogs Eng & Min J 104:563 S 29 '17

Acetylmethylcarbinol
Abstract. J Fr Inst 184:119 Jl '17

Acid handling
Handling and transportation of liquids. H. R. Eisenhart. J Ind & Eni Chem 8:380-3 O '17

Packaging and plant handling of hazardous chemicals. N. A. Lautry. Met & Chem Eng 17:467-8 O 1 '17

Pouring acid from carboys without spattering. L. M. Dellingher, diag Elec R & W Elec 69:1166 D 23 '16

Pumping electrocyte from carboys. G. A. Broder, diag Elec R & W Elec's 70:464 Mr 17 '17


Acid-proof materials
Acid-proof mastic for floors and tank linings. D. T. Pierro. Metal Ind & Eng 9:1416 S '16

Same. Metal World 88:704 D 8 '16


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Acid content of fruits. W. D. Beiglow and B. Durnbar. J Ind & Eni Eng 9:782-7 Ag '17


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Acids —Continued
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Combination of acous and reverberation in the auditorium at the University of Illinois. II Arch 10:112 Ap 10 17
Plea for acoustic engineering. E. Merritt. Sibbey J 51:101-3 Ja 17
Activated sludge method. See Sewage disposal — Activated sludge method
Adamson act. 1916
Adamson act constitutional. Ry R 60:423-4 Mr 24 17
Adamson law before the Supreme court. Ry Age 62:10-3 Ja 13 17
Adamson law held to be constitutional. Ry Age 62:531-4 Mr 28 17
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Developments regarding the Adamson law. W. D. Hines. Ry R 67:764 D 8 16
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Adding machines
Barrett combined adding, listing and computing machine. Ind Management 63:suppl-2 My 17
Jigs for making parts of an adding typewriter. R. Mawson. diag. Am Mach 51:597-8 Ja 11 17
Operations in the manufacture of adding typewriters. R. Mawson. II Am Mach 46:801-2 My 10 17
Progressive fraction adder. II Mach 23:616 My 17
Use of adding machine in calculating percentage and in pro-rating. S. Walton. J Account 31:399-40 My 17
Uses for adding machines in engineering office. E. S. Fuller. Eng N 77:141-2 Mr 15 17
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Aden, Arabia
Places where electric fans are needed but cannot be used. Sci Am 117:76 Ag 4 17
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Adsortion
Capillary and electrodically capacity. W. C. M. Lovia. Sci Am 8:95-6, 106 F 17
Advancement of science, American association for. See American association for the advancement of science
Advertisements
Advertising programs. J. L. Frazer. II Inland Pfr 60:66 O 17
Don't try to be clever in your advertising. Horsesless Age 42:34 D 1 17
Emphasis by white space. J. L. Frazer. Inland Pfr 61:497-8 Ja 17
Mounting and finishing of advertising display. L. S. Williams. Rec in the School of Commerce, Washington, D.C. 9 Ja 17
Putting selling power into 'em! J. L. Frazer. Inland Pfr 60:307-10 N 17
Special pages. L. Griffin. II Inland Pfr 59:90-7 Je 17
Task of type in advertising. F. G. Winter. Inland Pfr 60:56-7 O 17
See also Advertising; Catalogs
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17; Same. Bidg Age 32:731-2 D 17
Advertising farm sales. J. C. Morrison. Inland Pfr 59:666 F 17
Aera policy a departure from right principles. T. S. Williams. Elec Ry J 48:441-2 Mr 9 17
Banker shows tradesmen way to success. D. L. Hance. II Metal Work 87:306-7 Mr 2 17
Cooperative promotion of foreign advertising. J. C. Morrison. Inland Pfr 58:37'-49 Ap 17
How much should dealers invest in advertising? prize essays. Horsesless Age 42:30-1 O 13 17
How to start a productive advertising service. W. Wolfson. Inland Pfr 60:52-7 O 17
How to tell fraudulent financial advertising. Elec Ry J 50:545 N 14 17
Practical advice on foreign advertising for the newspaper publisher. L. Swain. Inland Pfr 61:382-40 D 16
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Review of the advertising convention at St. Louis. Indiana Prr 62:448-9 Jl 17

Should the gas associations publish advertising in their annual proceedings. Am Gas Light J 106:440 D 18 '16

What shall advertising policy be; electrical firm still advertises through overseas. C. H. Clark. Elec R 71:139-40 Ag 4 '17

Work of the Graphic arts association in the interest of the advertiser. J. A. Borden. Indiana Prr 60:495-6 Jl 17

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Big drive for uniformity of rates. J. C. Mor- rison. Indiana Prr 60:385 Je 17


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Aerial fire apparatus. See Fire apparatus, Aerial

Aerial photography. See Photographs, Aerial

Aerial propellers. See Aeroplane propellers

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