

# HOME STUDY and SUCCESS.

## THE DRAKE SERIES OF HOME STUDY BOOKS.

Never before has such an opportunity been given to men and boys the world over to make themselves thorough masters of all the leading mechanical and scientific trades and professions, and the avidity and eagerness with which so many are availing themselves of this unique chance to obtain, by so direct and easy a method, this practical and invaluable knowledge is the most potent testimonial to the high merit of the works that public sentiment can accord. The prices for these valuable works have been marked at a phenomenally low figure with a view to place them within the reach of everybody—ambitious men and boys of the narrowest means as well as their more prosperous co-workers.

### They Are Practical, Omitting Nothing Essential and Containing Nothing Irrelevant

From the Home Study Series of books has been eliminated everything which can in the remotest degree divert the student's mind from the essentials of the subjects treated; thereby providing him with the necessary and useful knowledge by the most direct route and shortest cut and saving him many hours of misspent study.

Designed for employees of mills, factories, offices, the farm, etc., the Home Study works present all the rules, formulas and principles of practical science, describing processes, machinery, tools, etc., in such a manner as to enable the student to put in practice what he learns—in short these works make a practical operator of the student and not an eloquent theorist as is too often the case with the product of modern schools. The books are technical only within indispensable limitations, and in such instances care has been observed not to confuse the student with terms which to an untrained reader might appear ambiguous or obscure.

SEND FOR FREE ILLUSTRATED CATALOGUE

## DRAKE'S SELF-TEACHING BOOKS.

Each volume is a complete modern treatise—written so you can understand it.

**Practical Treatise on the Use of the Steel Square.** By Fred T. Hodgson. Two large volumes. 560 pages. 500 illustrations. Cloth. Price **\$2.00**

**Modern Estimator and Contractors' Guide.** For pricing all builders' work. By Fred T. Hodgson. 300 pages. Fully illustrated. Cloth. Price **\$1.50**

**Modern Carpentry and Joinery.** A practical manual. By Fred T. Hodgson. 250 pages. 200 illustrations. Cloth. Price **\$1.00**

**Easy Lessons in the Art of Practical Wood Carving.** By Fred T. Hodgson. 320 pages. 300 illustrations. Cloth. Price **\$1.50**

**The Up-to-Date Hardwood Finisher.** By Fred T. Hodgson. 320 pages. 117 illustrations. Cloth. Price **\$1.00**

**Common Sense Stair Building and Hand-railing.** By Fred T. Hodgson. 200 pages. 200 illustrations. Cloth. Price **\$1.00**

**Twentieth Century Stonemason's and Bricklayer's Assistant.** By Fred T. Hodgson. 320 pages. 400 illustrations. Cloth. Price **\$1.50**

**Builders' Architectural Drawing Self-Taught.** By Fred T. Hodgson. 300 pages. 300 illustrations. 18 large double folding plates. Cloth. Price **\$2.00**

**Modern Carpentry, No 2—Advanced Series.** By Fred T. Hodgson. This is a continuation of Mr. Hodgson's first volume on Modern Carpentry and is intended to carry the student to a higher plane than is reached by the first volume. 12mo. Cloth. 300 pages. Over 300 illustrations. **\$1.50**

**Concretes, Cements, Mortars, Plasters and Stuccos.** How to make and how to use them. By Fred T. Hodgson, Architect. This is another of Mr. Hodgson's practical works that appeal directly to the workman whose business it is to make and apply the materials named in the title. 12mo. Cloth. 300 pages. Fully illustrated. Price **\$1.50**

**The Builder and Contractors' Guide.** To correct measurements of areas and cubic contents in all matters relating to buildings of any kind. By Fred T. Hodgson, Architect, and W. M. Brown, C. E., and Quantity Surveyor. 12mo. Cloth. 200 pages, illustrated. **\$1.50**

**Practical Bungalows and Cottages for Town and Country.** Arranged and Edited by Fred T. Hodgson. The book contains perspective wash drawings and floor plans of one hundred and twenty-five choice homes, ranging in price from \$500 to \$2,000. 12mo. Cloth. 250 pages. 300 illustrations. Price **\$1.00**

**The Amateur Artist or Oil and Water Color Painting Without the Aid of a Teacher.** By F. Delamotte. Large 12mo. Cloth. 160 pages, fully illustrated. Price **\$1.00**

**The Signist's Book of Modern Alphabets.** Collected and engraved by F. Delamotte. Plain and ornamental, ancient and mediaeval, from the Eighth to the Twentieth Century. Large oblong octavo. 208 pages. 100 designs. Price **\$1.50**

**Modern Locomotive Engineering.** With questions and answers. Twentieth Century Edition. By Calvin F. Swingle, M.E. 650 pages. 400 illustrations. Full leather. Gold edges. Pocketbook style. Price **\$3.00**

**The Twentieth Century Hand-Book for Steam Engineers and Electricians.** Second revised and enlarged edition. By Calvin F. Swingle, M.E. 650 pages. 300 illustrations. Full leather. Pocketbook style. Gold edges. Price **\$3.00**

**Steam Boilers: Their Construction, Care and Operation.** With Questions and Answers. By C. F. Swingle, M.E. 200 pages. Fully illustrated. Price **\$1.50**

**Complete Examination Questions and Answers for Marine and Stationary Engineers.** By Calvin F. Swingle, M.E. Full leather. Price **\$1.50**

**The Calculation of Horse Power Made Easy.** Tells how to calculate the power of steam engines, gas and oil engines and electric motors. By L. E. Brookes, M.E. 80 pages. Fully illustrated. Cloth. Price **75c.**

**Modern Air Brake Practice: Its Use and Abuse.** With questions and answers. Treats on both Westinghouse and New York systems. By Frank H. Dukessmith. 400 pages. 150 illustrations, with five large folding plates. Cloth. Price **\$1.50**

**The Practical Gas and Oil Engine Hand-Book.** A manual on the care, maintenance and repair of gas and oil engines. By L. E. Brookes, M.E. 160 pages. Fully illustrated. Cloth. Price **\$1.00**

**Full Leather. Price **\$1.50****

**The Automobile Hand-Book.** Giving the care, construction and operation of gasoline and electric automobiles. By L. E. Brookes, M.E. 320 pages. 118 illustrations. Full leather. Price **\$1.50**

**Twentieth Century Machine Shop Practice.** The best and latest and most practical work published on modern machine shop practice. By L. Elliott Brookes. Large 12mo. Cloth. 650 pages. 400 illustrations. Price **\$2.00**

**Practical Up-to-Date Plumbing.** A practical up-to-date work, on Sanitary Plumbing. By George B. Clow. Over 150 illustrations. Large 12mo. Cloth. 280 pages. Price **\$1.50**

**Hot Water Heating, Steam and Gas Fitting.** A modern treatise on Hot Water, Steam and Furnace Heating, and Steam and Gas Fitting. By Wm. Donaldson. Large 12mo. 270 pages. Over 100 illustrations. Cloth binding. Price **\$1.50**

**Farm Engines and How to Run Them.** The Young Engineer's Guide. By James H. Stephenson. This book is used as a text book in nearly every Agricultural College in the United States and Canada. 230 pages. 75 illustrations. Cloth. Price **\$1.00**

**Sheet Metal Workers' Instructor.** This work consists of useful information for Sheet Metal Workers in all branches of the industry. By Joseph H. Rose. Profusely illustrated. Large 12mo. 300 pages. Cloth. **\$2.00**

**Practical Telephone Hand Book and Guide to Telephonic Exchange.** How to construct and maintain Telephone Lines. By T. S. Baldwin. 12mo. Cloth. Price **\$1.00**

**Telegraphy Self-Taught.** A complete manual of instruction. By Theo. A. Edison. 160 pages. Fully illustrated. Cloth. Price **\$1.00**

**Handy Electrical Dictionary.** Vest Pocket Edition. 4,800 words, terms, phrases. By W. L. Weber. 224 pages. Illustrated Cloth Indexed. Price **25c.** Full leather. Price **50c.**

**Modern Wiring Diagrams and Descriptions.** By V. H. Touseley and H. C. Horstman. The standard authority on electric wiring of all kinds. 160 pages. 200 illustrations. Full leather. Price **\$1.50**

**Electricity Made Simple.** By C. C. Haskins. Just the book for beginners. 233 pages. 108 illustrations. Cloth. Price **\$1.00**

**Dynamo Tending for Engineers or Electricians for Steam Engineers.** By Horstman & Touseley. 200 pages. 116 illustrations. Cloth. Price **\$1.50**

**Modern Electrical Construction.** By Horstman & Touseley. Treats entirely on Practical Electrical Work. 250 pages. 100 illustrations. Full leather. Price **\$1.50**

**Easy Electrical Experiments and How to Make Them.** A book for beginners. By L. P. Dickinson. 220 pages. Fully illustrated. Cloth. Price **\$1.00**

**The Up-to-Date Electroplating Hand-Book.** A complete treatise on Electroplating in all its branches. By Jas. H. Weston. 192 pages. 50 illustrations. Cloth. Price **\$1.00** Full leather. Price **\$1.50**

Any of the Works here described may be obtained from the publisher prepaid to any address upon receipt of price (duty free), or can be had from our Canadian Representatives:

G. FRANKFURTER & SON, Winnipeg  
THE T. EATON CO., LTD.  
RUSSELL LANG & CO.  
JOHN A. HART & CO.  
MACDONALD MAIL ORDER LTD.

THE DOUGLAS CO., LTD., Edmonton  
THE WINDSOR SUPPLY CO., Windsor  
THOMPSON STN'RY CO., Vancouver  
WARNERS, LTD., Brandon  
The MUSSON BOOK Co., Ltd., Toronto

THE T. EATON CO., LTD. - Toronto  
THE ROBERT SIMPSON CO. -  
ALBERT BRITNELL -  
VANNEVAR & CO. -  
JOHN B. GAY - Hamilton

**FREDERICK J. DRAKE & Co., Publishers,**

**350 WABASH AVE., SOUTH,  
CHICAGO, ILL., U.S.A.**