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SELECTED LIST OF BOOKS FOR THE BRICK YARD OFFICE

By:

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In preparing this list of books I have tried to make it short. In some cases it seemed advisable to name several books dealing in a general way with the same subjects and a few that will be of interest only to certain manufacturers. From the list I have chosen a dozen which I consider important enough to have a place at every brickyard; these are starred on the list.

The following subjects are covered: clays and their properties, methods of winning and their manufacture into brick and tile, and much regarding the machinery and equipment used. The technology deals with the details of clay plant operation, causes of many of the troubles and various means of overcoming or avoiding them.

To the list might well be added books on more general subjects such as industrial management, methods of accounting, and salesmanship and text books dealing with explosives, electric machinery, steam engines and boilers and so forth.

The prices are given wherever possible. There may be later editions than those listed.

- \* Clay Products Cyclopedia - 1924.  
Industrial Publications, Inc., Chicago, - - \$3.00  
This publication is probably one of the most useful for the brickplant. It contains a fund of information on many matters connected with brick making. Published every two years.
- \* Clays, Occurrence, Properties and Uses - H. Ries.  
Wiley & Sons, New York - 1912, - - - 5.00  
A very reliable book of 527 pages dealing with clays of all kinds, their origin, chemical and physical properties and uses. Contains 78 pages on clay mining, preparation and manufacture.
- Analyses of Clays - Alfred Crossley.  
T. A. Randall & Co., Indianapolis - 1909, - - 2.00  
Contains analyses of over 200 clays, especially those of England and United States



- \* Chemistry and Physics of Clays - A. B. Searle.  
Ernest Benn, Ltd., London - 1924 - 534 pages, -- \$12.50  
Contains much data valuable to brickmakers.  
Presents scientific and technical information  
in a clear and easily understood manner. Well  
indexed so that it is easy to refer to it for  
specific information.
  
- Treatise on Ceramic Industries - E. Bourry.  
Scott-Greenwood & Co., London - 1919. - - 6.00  
Revised translation from French by A. B. Searle.  
Deals especially with the pottery industries, but  
contains several chapters of interest to brick-  
makers. Describes dipping method for prevention of  
popping due to limestone pebbles.
  
- \* Modern Brickmaking - A. B. Searle.  
Van Nostrand Co., New York - 1920. - - 7.00  
A book of 510 pages dealing with manufacture of  
various types of brick. Largely English practice  
in brickmaking is described. Covers digging,  
transportation and preparation of the clay,  
various processes of moulding, dies, cutting,  
drying, dryers and dryer cars, kilns, setting,  
burning and the control of temperature.
  
- Bricks and Tiles - Edward Dobson.  
Crosby-Lockwood & Son, London - 1921, - - 3.00  
266 page elementary book on the art of making brick  
and tile - English practice.
  
- Vitrified Paving Brick - H. A. Wheeler.  
T. A. Randall & Co., Indianapolis - 1910.  
Manufacture, properties and testing of paving and  
sewer brick - 121 pages.
  
- Manufacture of Roofing Tiles - W. G. Worcester.  
Geological Survey of Ohio - 1910.  
A very complete treatise on the manufacture of roofing  
tile and covers many points of general interest to  
other heavy clay products manufacturers such as  
gathering and preparing clay, dies, drying and firing -  
463 pages.
  
- \* Effect of Heat upon Clays - A. V. Bleiningger.  
T. A. Randall & Co., Indianapolis - 1911.  
This book, while quite small, covers the subject of  
reactions which take place in clayware during firing  
in a sufficiently detailed and easily understood manner.  
It is interesting reading and should be on the shelves  
at the brick yards.
  
- \* Drying Clay Wares - Ellis Lovejoy.  
T. A. Randall & Co., Indianapolis - 1916, - 2.00  
Considers the physics of drying brick and tile.  
Describes and discusses various types of dryers.

- \* Burning Clay Wares - Ellis Lovejoy.  
 T. A. Randall & Co., Indianapolis, - - - \$7.50  
 The theory and practice of burning heavy clay products, construction and operation of kilns of various types, setting of brick, firing with various fuels.
  
- \* Burning Problems of Industrial Kilns.  
 Government Printing Office, Washington, D.C. - 1923 (?)  
 Report of an investigation by the U.S. Bureau of Mines in cooperation with the Heavy Clay Products Assn. Results of burning tests under scientific control at industrial plants, showing possible economies and means for improving ware.
  
- \* Scumming and Efflorescence - Ellis Lovejoy.  
 Richardson-Lovejoy Engineering Co. - 1907, - .50  
 Gives all the common causes of scumming and efflorescence, classifies and distinguishes these from each other and gives remedies for each.  
 60 pages.
  
- Clayworking Problems.  
 Industrial Publications, Chicago - 1915, - - 1.50  
 A compilation of questions and replies concerning clayworking problems which have appeared in "Brick and Clay Record". Contains many items of every day interest to brickmakers.
  
- \* Clay Plant Construction and Operation - A.T.Greaves-Walker.  
 Industrial Publications, Chicago - 1919, - - 4.00  
 Methods of testing clay properties, construction and operation of dies, dryers and kilns.
  
- \* Economies in Brickyard Construction and Operation -  
 Ellis Lovejoy.  
 T. A. Randall & Co., Indianapolis - 1913, - - 1.00  
 Deals with operations of brickmaking from clay gathering to the sorting and piling of the bricks. Many points are taken up from the dollars and cents standpoint.
  
- 101 Ideas for Improving the Clay Plant.  
 Industrial Publications, Chicago, - - - 1.50  
 123 pages, many short articles illustrative of ingenious devices or convenient ways of accomplishing results in and about brick plants.
  
- \* Kilns and Kiln Building - A. B. Searle.  
 Clayworker Press, London - 1915, - - - 5/0  
 Contains descriptions of many types of brick kilns, illustrating fire arrangement, fire boxes, etc. Kilns for solid fuel and gas are covered very thoroughly but little is said regarding oil burning.  
 492 pages.

Industrial Furnaces - C. L. W. Trinks.

John Wiley & Sons, New York.

Vol. I - 1923 - \$4.50; Vol. II - 1925 - \$5.50.

Deals with theory of combustion and transfer of heat. Covers mainly metallurgical and boiler furnaces but goes into various types of oil and gas burners thoroughly. While not dealing directly with brick kilns much is applicable to brick kiln operation.

How to Build up Furnace Efficiency - J. W. Hays.

J.W.Heys, Corp. Michigan City, Ind. - 1920.

A handbook of fuel economy.

Material Handling Cyclopedia.

Simmons-Boardman Pub.Co., N.Y. - 1921, - - \$10.00

Much useful data on mechanical handling of materials. Subjects, some of which are covered in detail, include elevators, conveyors, rope haulage, cranes, derricks, excavators, trucks, coal handling machinery - 840 pages.

Periodicals

- British Clayworker - monthly, - - - - 14/-  
43 Essex St., Strand, London, W.C.2, England.
- Brick and Clay Record - fortnightly, - - - \$3.00  
407 S. Dearborn St., Chicago, U.S.A.
- Clayworker - monthly, - - - - 2.00  
T. A. Randall & Co., Indianapolis, U.S.A.