

**CONCRETE-BLOCK
MANUFACTURE;
PROCESSES AND MACHINES.
[NEW YORK-1906]**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649554225

Concrete-Block Manufacture; Processes and Machines. [New York-1906] by Harmon Howard Rice

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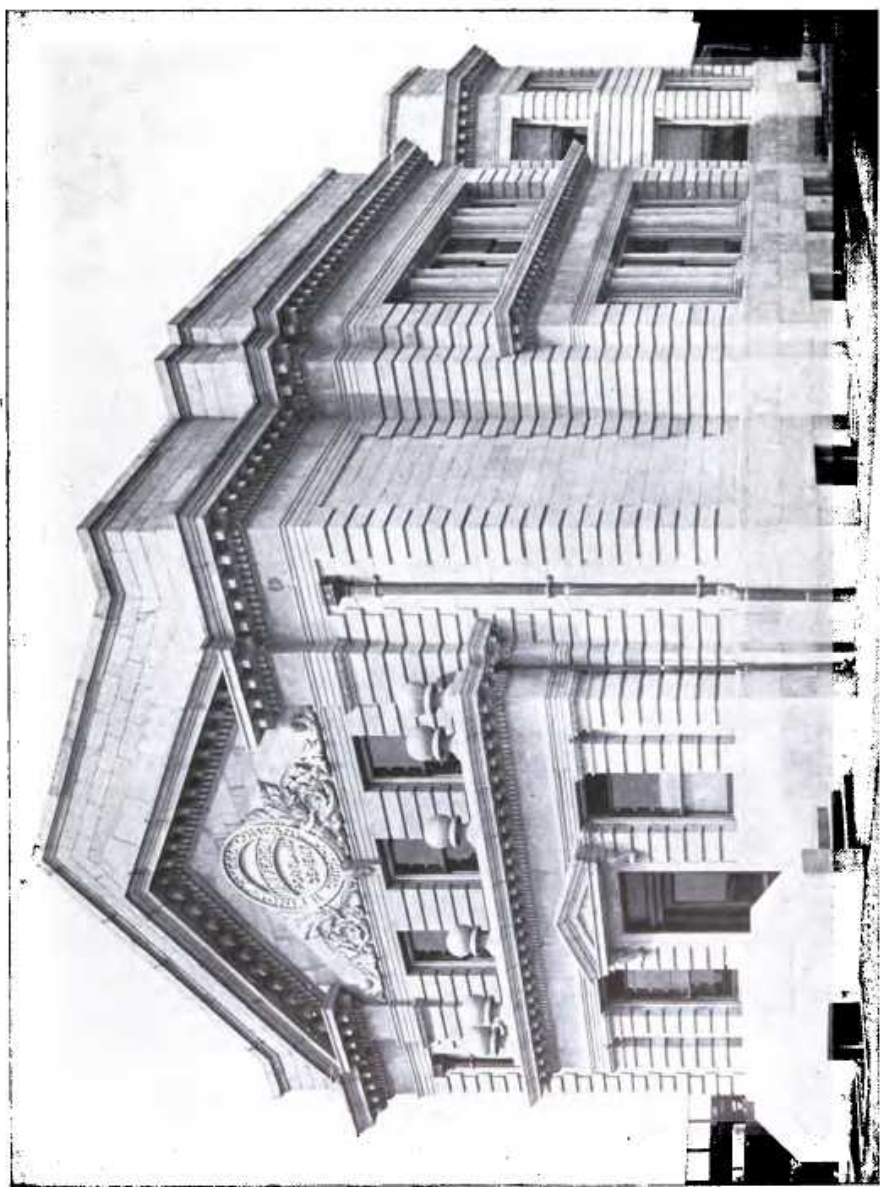
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HARMON HOWARD RICE

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Frontispiece.

Office Building of the Buffalo Cement Plant of the Illinois Steel Co.

Argyle E. Robinson, Architect; Hoyer & Co., Contractors.

*By courtesy of
The Cement Age, New York.*

CONCRETE-BLOCK MANUFACTURE

PROCESSES AND MACHINES

BY
HARMON HOWARD RICE

FIRST EDITION

FIRST THOUSAND



NEW YORK

JOHN WILEY & SONS

LONDON: CHAPMAN & HALL, LIMITED

1906

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ROBERT DRUMMOND, PRINTER, NEW YORK

PREFACE.

THE object of this book is to present in a simple manner those well-established principles of concreting which practice has shown applicable to the manufacture of concrete blocks for building hollow walls.

The theoretical and technical questions which arise in connection with the industry are only considered in so far as benefit may result to the operator in the actual manufacture of blocks and their use in construction.

The conclusions which have been reached are the result not only of the author's experience in actual work, but of a careful consideration of the successes and failures of a large number of operators throughout a series of years, supplemented by a careful weighing of the many articles bearing on particular phases of the subject which have been published in cement, engineering, and building magazines.

To many it will appear that this book is unduly critical. For this no apology is offered. As the industry grows much of the evil herein criticised will pass away, and it is hoped that this work may, in some measure, aid in giving to the weaknesses of the industry that prominence which can alone secure their eradication, to the end that concrete blocks may universally attain that high regard now accorded in localities where they are manufactured by really able hands.

As no allusion to patents is made in the text, the author deems it but fair to here state that very many of the designs and machines shown are protected by letters patent.

To those manufacturers whose ready cooperation has been both a powerful stimulus and a substantial aid in the production of this work grateful acknowledgment is rendered. To those who have so generously furnished illustrations of the machines they make, and of the buildings, blocks, and special members produced in machines or molds of their manufacture, the author's thanks are due. This list is as follows: The Winget Concrete Machine Co., Columbus, Ohio, Figs. 11 and 18; The Cement Working Machinery Co., Detroit, Michigan, Fig. 44; Kells' Foundry and Machine Co., Adrian, Michigan, Fig. 5; Miracle Pressed Stone Co., Minneapolis, Figs. 10, 13, 38, and 39; H. S. Palmer Hollow Concrete Building Block Co., Washington, D. C., Figs. 3, 14, and 15; J. B. Prescott & Son, Webster, Massachusetts, Fig. 40; White Cement Machinery Co., Jackson, Michigan, Fig. 43; The Hayden Automatic Block Machine Co., Columbus, Ohio, Figs. 17 and 34; Contractors' Supply and Equipment Co., Chicago, Fig. 1; Municipal Engineering and Contracting Co., Chicago, Fig. 2; Ideal Concrete Machinery Co., South Bend, Indiana, Figs. 28, 30, 31, and 35; Simpson Cement Mold Co., Columbus, Ohio, Fig. 45; The American Hydraulic Stone Co., Denver, Colorado, Figs. 6, 7, 8, 9, 12, 19, 21, 23, 24, 25, 27, 29, 32, 33, 36, and 37; The Pettyjohn Co., Terre Haute, Indiana, Figs. 16, 22, and 26; Concrete Block Machine Co., Auburn, Indiana, Fig. 4; Century Cement Machine Co., Rochester, New York, Figs. 41 and 42; Chase Foundry and Manufacturing Co., Columbus, Ohio, Fig. 20. The frontispiece is presented by courtesy of *The Cement Age*, New York.

HARMON HOWARD RICE.

DENVER, COLO., March 1906.

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