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WEST'S

# MOULDERS' TEXT-BOOK:

BEING PART II. OF

## AMERICAN FOUNDRY PRACTICE.

PRESENTING

BEST METHODS AND ORIGINAL RULES FOR OBTAINING GOOD,  
SOUND, CLEAN CASTINGS; AND GIVING DETAILED  
DESCRIPTION FOR MAKING MOULDS REQUIRING  
SKILL AND EXPERIENCE.

ALSO CONTAINING

A PRACTICAL TREATISE UPON THE CONSTRUCTION OF  
CRANES AND CUPOLAS, AND THE MELTING  
OF IRON AND SCRAP-STEEL IN  
IRON FOUNDRIES.

BY

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AMERICAN SOCIETY OF MECHANICAL ENGINEERS, AND  
OF THE CIVIL ENGINEERS' CLUB OF  
CLEVELAND, OHIO.

*FULLY ILLUSTRATED.*

FOURTH EDITION.

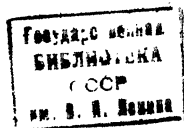
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## PREFACE.

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ALTHOUGH it is more than two years since the appearance of the first volume, the author cannot refrain from here tendering his most sincere thanks to the press and public of America and England for the cordial reception given his first book. Also, to American foundrymen and moulders the author is greatly indebted for the universally rapid introduction of his work among them.

The compliments which were so kindly tendered the first volume have encouraged and stimulated the author to write this second book.

Many of the original articles here submitted, as in vol. i., appeared in the "American Machinist," and have been revised for this volume. Also, many of these articles have had valuable additions made to them.

The subjects of Cupolas and Melting, also those of moulding in green sand, in dry sand, and in loam, are extensively treated; and this volume, in connection with vol. i., it is thought affords a thorough presentation of each subject.

The author received many communications regretting the lack of a treatise upon cranes in the first volume: hence he has endeavored to present, in this, the practical and essential

features to be considered in properly constructing them for foundry use. Jib, post, and travelling cranes are treated, so that ideas of practical value may be obtained, either for engineers or foundrymen.

Wherever the author has thought an engraving would be of any assistance in making his subjects clear, such illustration is given.

As stated in the preface to vol. i., there is certainly a very large field for new ideas and progress in foundry practice; and the author hopes that his studies and advanced methods here presented to the practical moulders of America verify the above statement, and will be as kindly received as those of his first book.

THOMAS D. WEST.

CLEVELAND, January, 1885.

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