

**THE BESSEMER PROCESS
AND WORKS IN THE
UNITED STATES, PP.3- 35**

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VARIOUS

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IN

THE UNITED STATES.

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1868.

A TREATISE
ON THE
METALLURGY OF IRON

CONTAINING OUTLINES OF

THE HISTORY OF IRON MANUFACTURE
METHODS OF ASSAY, AND ANALYSES OF IRON ORES
PROCESSES OF MANUFACTURE OF IRON AND STEEL
ETC., ETC.

By H. BAUERMAN, F.G.S.

Associate of the Royal School of Mines.

FIRST AMERICAN EDITION, REVISED AND ENLARGED.

With an Appendix

ON THE MARTIN PROCESS FOR MAKING STEEL

FROM THE REPORT OF

ABRAM S. HEWITT

United States Commissioner to the Universal Exposition at Paris, 1877.

Illustrated with numerous Wood Engravings.

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THE
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THE BESSEMER PROCESS.

THE PRODUCTION OF CHEAP STEEL IN AMERICA.—THE COMPLETION OF THE PARENT WORKS AT TROY.—DESCRIPTION OF THE VARIOUS BESSEMER WORKS IN THIS COUNTRY.—THE NATURE AND VALUE OF THE IMPROVEMENT.

THE changes beheld by Rip Van Winkle when he last descended the Catskills, are hardly remarkable when compared with the chemical and engineering wonders to which we have awakened after twenty years of comparative lethargy. All on a sudden fresh fountains of force and new veins of precious material seem to have burst out of the earth; already they have possessed every artificial motion and structure, and are embodied in the organization of every-day life. Among the more remarkable of these changes—ocean telegraphy, steam transportation, and engineering construction—the most wonderful and far reaching—the realization of the alchemists' dreams, is Chemical Transformation. All the world is the stage upon which its wonders are the glittering spectacle, and we turn rather to the Arabian Nights than to sober history for an index to the coming acts. Yet the powers behind the scenes are neither furies nor fairies, but brains and brawn. It is neither magic nor alchemy, but straightforward, inductive reasoning and downright, patient, organized, costly work that lays open the great unknown and utilizes its treasures.

The modern revolution in metallurgy is, perhaps, less striking, but more wonderful than all the others. The wonder of ocean telegraphy is new every morning, while the furnace smokes silently and unobserved. But the smoke of