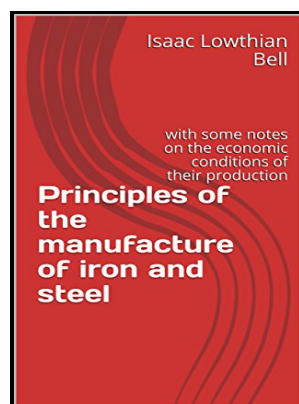


Manufacture of iron and steel.

Chapman & Hall - Steel manufacture



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Notes: Previous ed.: 1960.
This edition was published in 1964



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The Steel Manufacturing Process

The first step in the metallurgy of iron is usually roasting the ore heating the ore in air to remove water, decomposing carbonates into oxides, and converting sulfides into oxides. This makes sequence casting possible — the casting of a number of ladles of the same grade steel without stopping the machine. Several times a day, the slag and molten iron are withdrawn from the furnace.

The Voice of the American Steel Industry

Textbook content produced by OpenStax College is licensed under a license. After the steel has been refined and samples taken to check temperature and composition, the converter is tilted and the steel is tapped into a ladle. Finally, the process evolved into a highly cost-effective way of mass-producing high-quality steel that we still use today.

23.3: Metallurgy of Iron and Steel

Several types of furnaces are used for the production of steel including. A water-cooled oxygen lance is lowered into the converter and high-purity oxygen is blown on to the metal at very high pressure.

Steel manufacture

Since the mid-1800s, steel has become one of the most relied-upon materials globally, serving countless manufacturing and construction markets. At the start of the process, the electrodes are withdrawn and the roof swung clear.

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