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The Complete Technology Book on Hot Rolling of Steel (2nd Edition)

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About the Book

The Complete Technology Book on Hot Rolling of Steel" is an essential guide for professionals working in the steel industry, particularly those involved in the rolling processes. Hot rolling is a key procedure in steel manufacturing where the metal is heated above its recrystallization temperature and then passed through rollers to achieve the desired shape and thickness. The Hot rolled steel refers to steel that has been rolled or formed at high temperatures, typically over 1,700°F (927°C). At these temperatures, the steel becomes more malleable, making it easier to shape and form into various products. The hot rolling process is one of the most common methods used in the production of steel.

The global steel market size was estimated at USD 1,469.04 billion and is projected to grow at a CAGR of 5.3%. The global steel market is anticipated to be driven by rising investments in construction activities. Infrastructure and construction extensively require massive amounts of steel to enhance the aesthetic appeal and corrosion resistance of the structure. Steel products offer high strength and are 100% recyclable, which makes them applicable in residential, commercial, and infrastructural applications. Growing investments in construction sector is anticipated to augment market growth.

In this Book several chapters focus on the specific processes within hot rolling, such as the hot strip mill, which is central to producing hot-rolled steel plates and coils. These sections provide insights into the manufacturing of steel plates, coils, and bars, which are essential products in construction, automotive, and various industrial applications.

The book covers a wide range of topics connected to hot strip mill, Hot Rolled Steel Plates Manufacturing, Hot Rolled Coils Production, Hot Rolled Steel Bars Production, Railway Track (Railroad Tracks) Manufacturing, TMT Bars Manufacturing, Rolling, Steelmaking Refractories, Overview of Steelmaking Processes and their Development, Structural Changes in Steel during Hot Rolling, Steel Heating for Hot Rolling, Thermomechanical Treatment Combined with Rolling, Oxygen Steelmaking Processes, Alternative Oxygen Steelmaking Processes, Refining of Stainless Steels. It also includes contact information for machinery suppliers, as well as images of equipment.

A complete guide on Hot Rolling of Steel manufacture and entrepreneurship. This book serves as a one-stop

shop for everything you need to know about the Steel manufacturing, which is ripe with opportunity for manufacturers, merchants, and entrepreneurs. This is the only book that covers Production of Hot Rolling of Steel in depth. From concept through equipment procurement, it is a veritable feast of how-to information.

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