



Flat-Rolled Steel Processes: Advanced Technologies

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Throughout the last two decades, the flat-steel production industry has experienced great success with the introduction of new technologies and manufacturing advances for both hot and cold steel-rolling. These improvements are resulting in significantly reduced production costs and better product quality. Recent consolidation of the steel industry—which has led to improved sharing of technological breakthroughs between plants—is creating an optimal atmosphere for the implementation of advances.

An assessment of industry progress, **Flat-Rolled Steel Processes: Advanced Technologies** details these improvements, assembling input from 62 international contributors specializing in various areas of research and development of steel production technology and manufacturing of flat steel products. It describes the challenges and the latest solutions to problems in four major areas:

- New concepts and modernization of rolling mills
- Modeling of flat-rolling processes
- Measurement, automation, and process control
- Strip profile and flatness control

Written for a broad audience, each chapter familiarizes readers with a different aspect of the latest theoretical and practical developments in the field. With its roots in the series of technical publications that summarize and review manufacturing developments for flat-rolled steel products, this volume explores the significant developments that are modernizing automation, process control, mathematical modeling, and quality-monitoring systems in flat-rolling processes. This includes the introduction of computer-based technology in both new and existing conventional rolling mills.

Providing expert insight and analysis related to technological improvements, this book will help readers understand the current state of flat steel production, how it evolved, and its future direction.

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