#### Abridged version

# KAWASAKI STEEL TECHNICAL REPORT No.34 (March 1996) Highly Efficient Production and Application of sheet Produts,and Application Development in Open System's Age

New Steelmaking and Hot Ro Iling Production Control System at Chiba Works

Mikio Funatani, Shigeo Takemoto, Yoshio Kamio

#### Synopsis:

The new Steelmaking Shops and Hot Strip Mill at Kawasaki Steel's Chiba Works, where the hot strip mill is linked directly to the steelmaking shops, with the time required to transport the slab from the steel making shops to the hot strip mill and the time required to reheat the slab being ze ro, are fully automated by process control computers. The authors have restructured the production control system to fit it to the new plants, applying a distributed system with UNIX system computers. The system functions have been separated into the human system part and the computer system part in such a way that computers perform ca lculations and checks of data and people make decisions, thereby reducing the overall manufacturing time. In addition, a centralized management function for the pr ocess control variables has been added in order to strengthen support ability for automatization and labor-saving, and a data analysis system using personal computers ha s been applied in order to support new product development.

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The body can be viewed from the next page.

## **New Steelmaking and Hot Rolling Production Control System at Chiba Works**\*







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The new Steelmaking Shops and Hot Strip Mill at















