## KAWASAKI STEEL TECHNICAL REPORT

No.18 (May 1988)

Sintering Energy Control System Us ing Carbon Analysis of Waste Gas and Hot-Zone-Ratio Measurement of Sinter Cake

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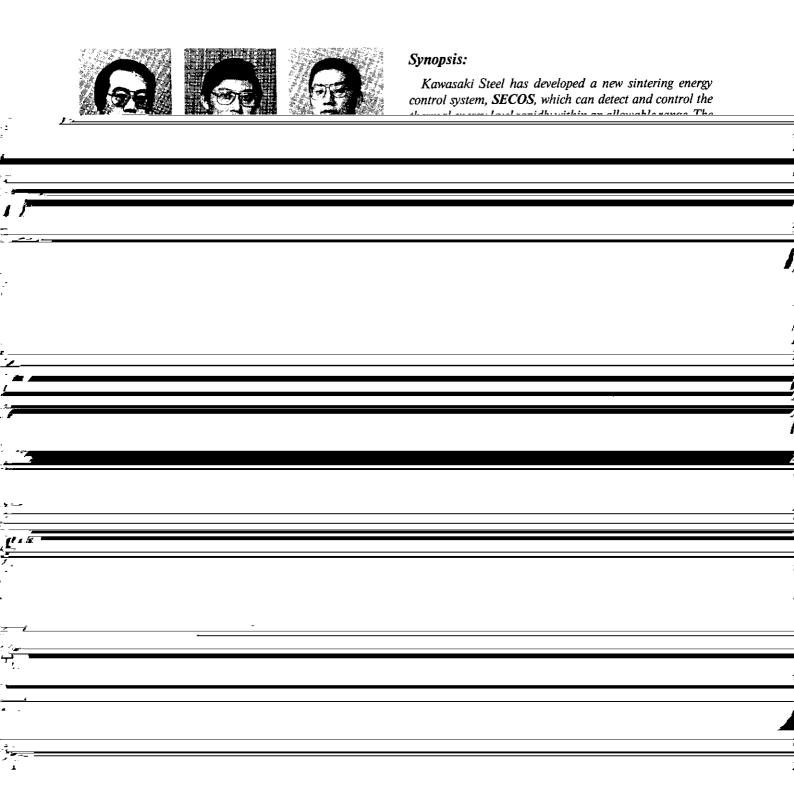
## Synopsis:

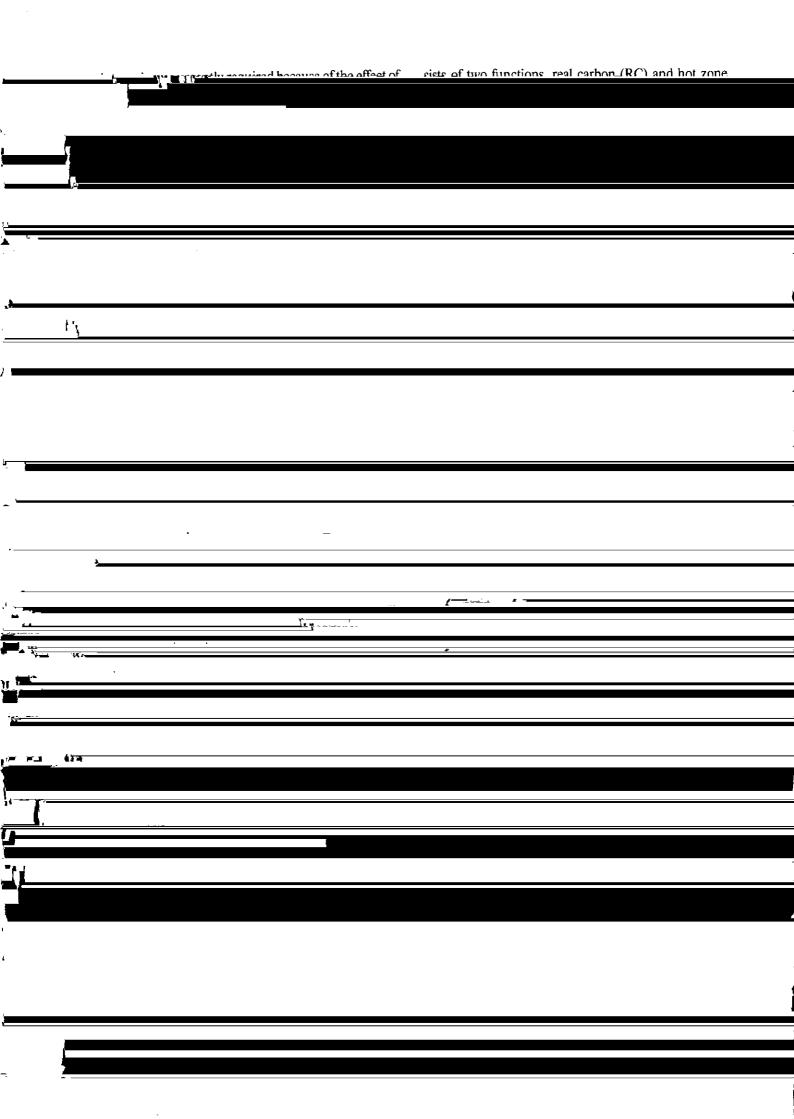
Kawasaki Steel has developed a new sinter ing energy control system, SECOS, which can detect and control the thermal energy le vel rapidly within an allowable range. The system is applied to No.3 and No.4 sintering plants in Chiba Works. It uses two parameters. One is a carbon quantity of sinter mix which is burnt on pallets. This is calculated through carbon balance by detect ing the waste gas volume and composition. Another is a hot zone ratio of the sinter cake cross section at the discharge end measured by an ITV camera. The system executes overall evaluation of the thermal energy level with these two parameters and controls the level within an allowable range by adjustment of the coke blending ratio. The is contributes to reducing the fluctuation of sinter quality and productivity.

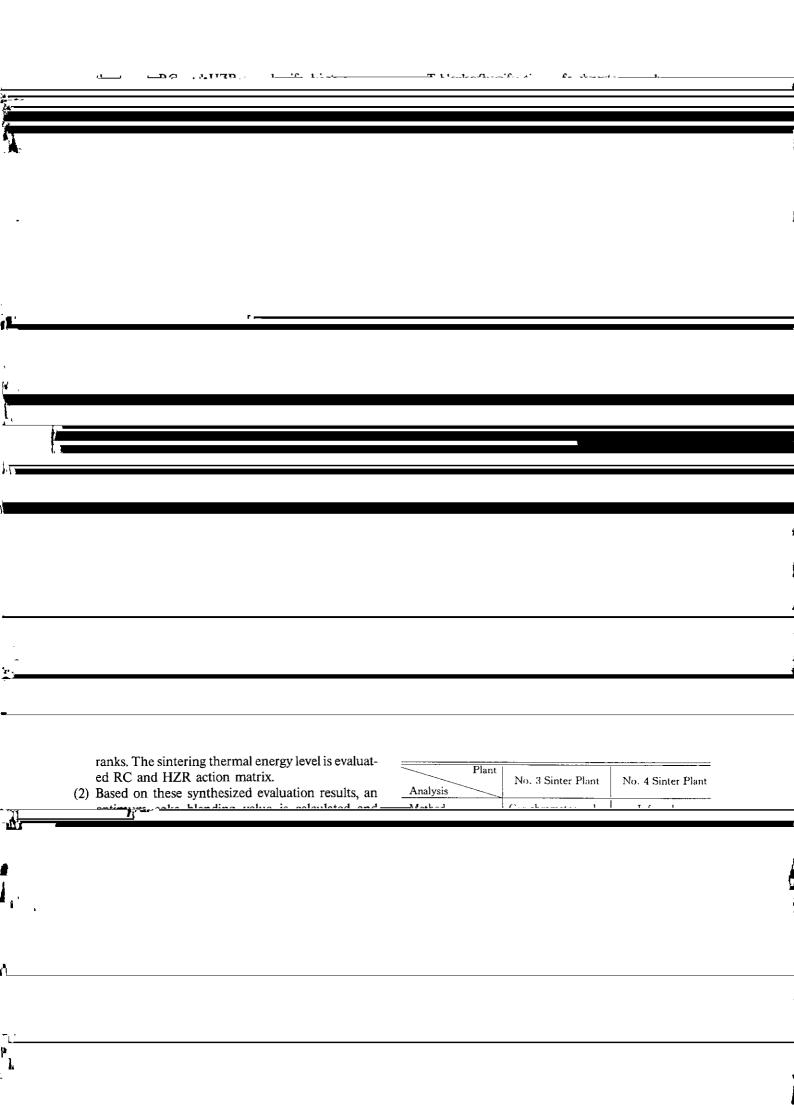
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## Sintering Energy Control System Using Carbon Analysis of Waste Gas and Hot-Zone-Ratio Measurement of Sinter Cake\*









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