

KAWASAKI STEEL TECHNICAL REPORT

No.32 (March 1995)

Ironmaking Technology, Secondary Refining,
and Center-Segregation Control with Forging in CC

Analysis of Decarburization Reaction in RH Degasser and Its Application to Ultra-low
Carbon Steel Production

Analysis of Decarburization Reaction in RH Degasser and

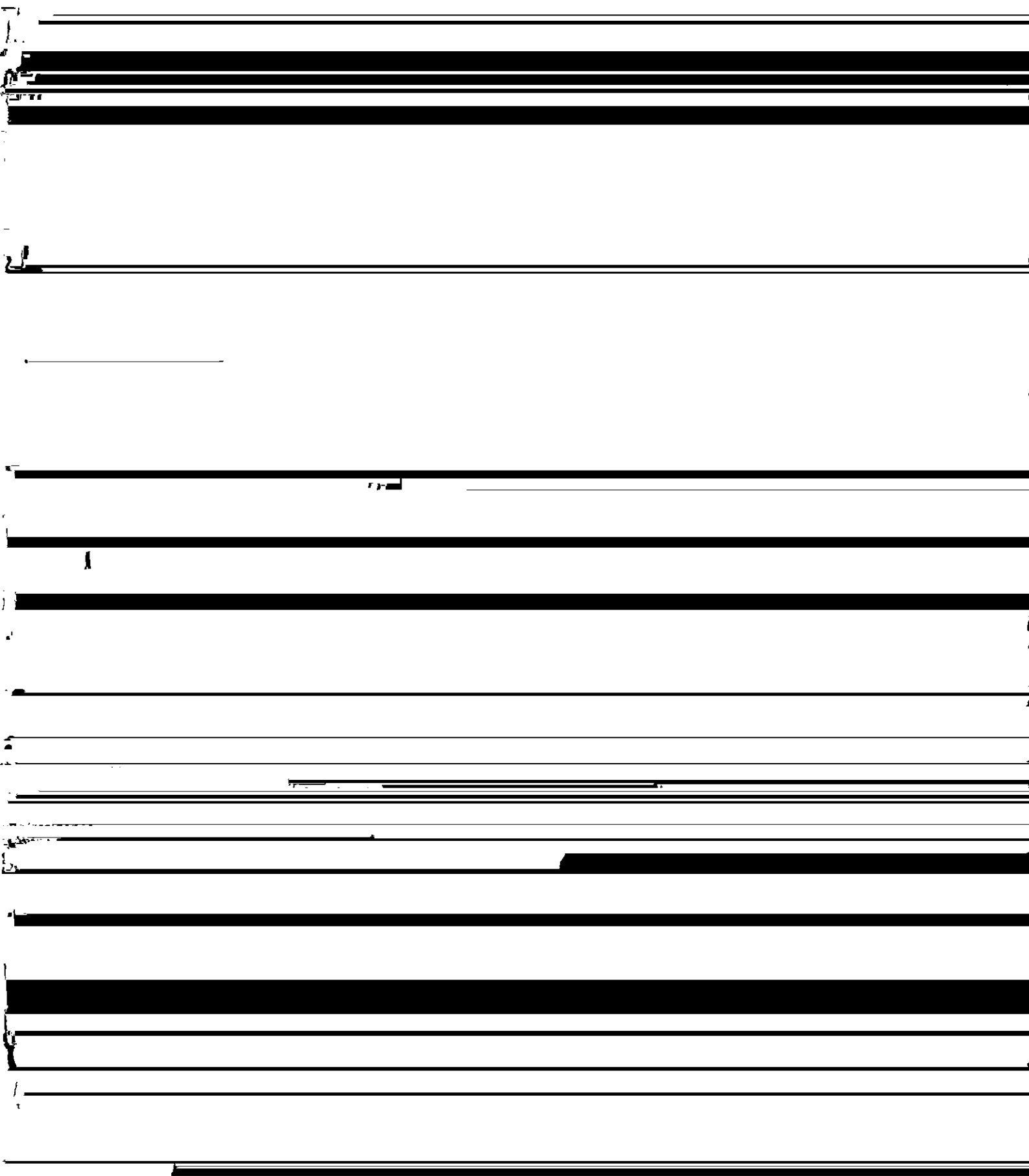
Its Application to Ultra Low Carbon Steel Production*

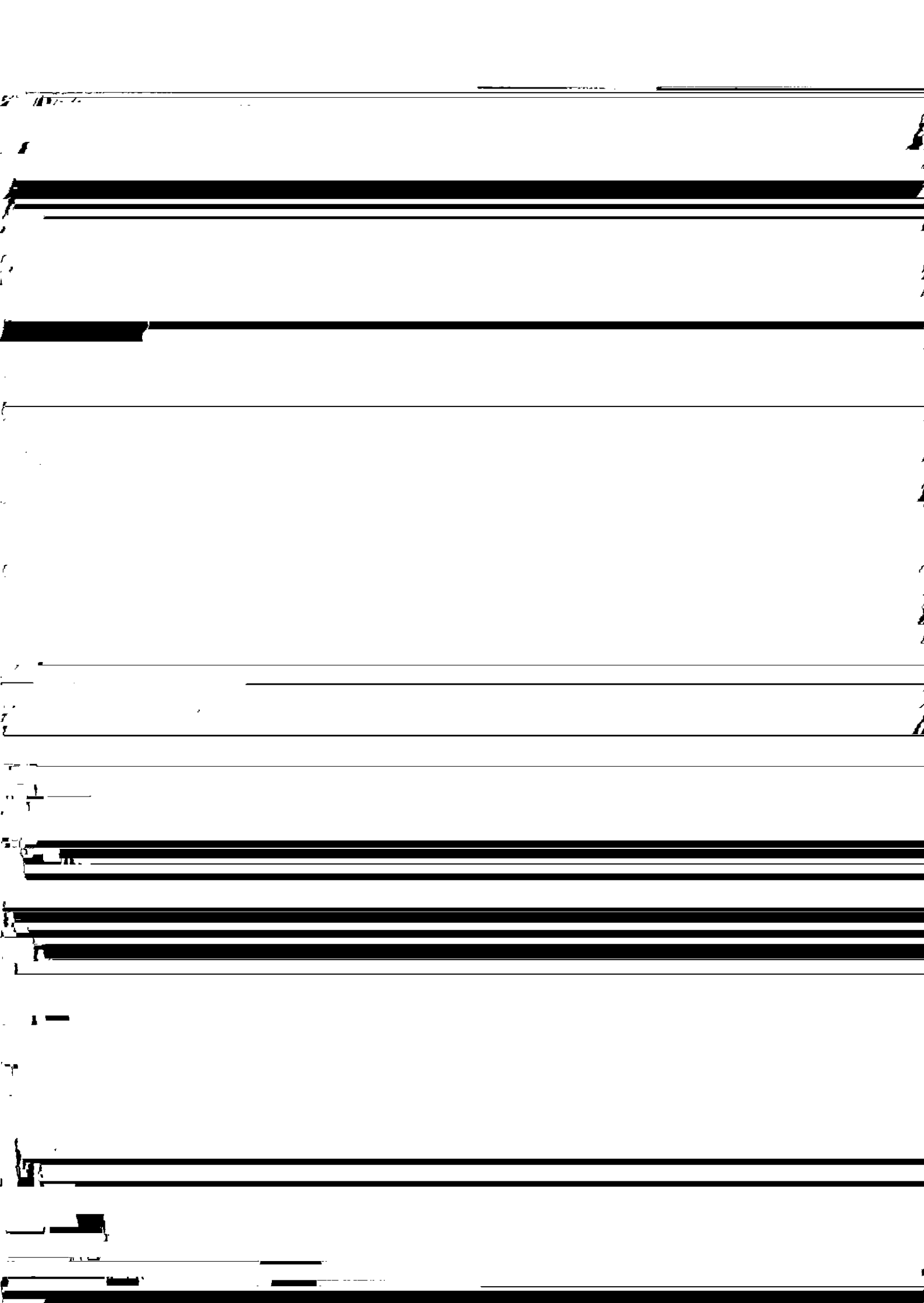
Synopsis:

Theoretical and experimental studies were carried out to quantify the effects of the fluid flow reaction sites and

(ppm)

100 90 80 70 60 50 40 30 20 10 0





the ladle is only about two times the minimum content.

1.000

tion represented by the open circles. This is attributable to a reduction in a in Eq. (11).

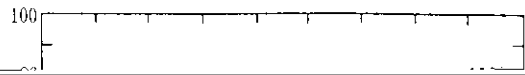
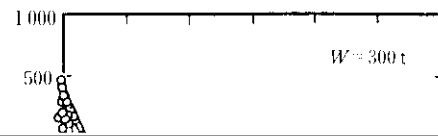


Table 1 Design parameters and rate constants for decarburization of RH degasser at Mizushima Works



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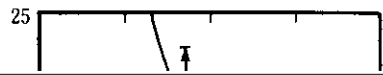
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actual and calculated values of K were in good agreement. Figure 9 can thus be used to estimate K for arbitrarily selected DTT equipment conditions.



and the carbon content is steadily reduced even in ... rization technology by combined process of converter and

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