

KAWASAKI STEEL TECHNICAL REPORT

No.13 (September 1985)

Development of a Highly Computer-Controlled Vehicle (HCCV) System for Hot Cast Blooms*



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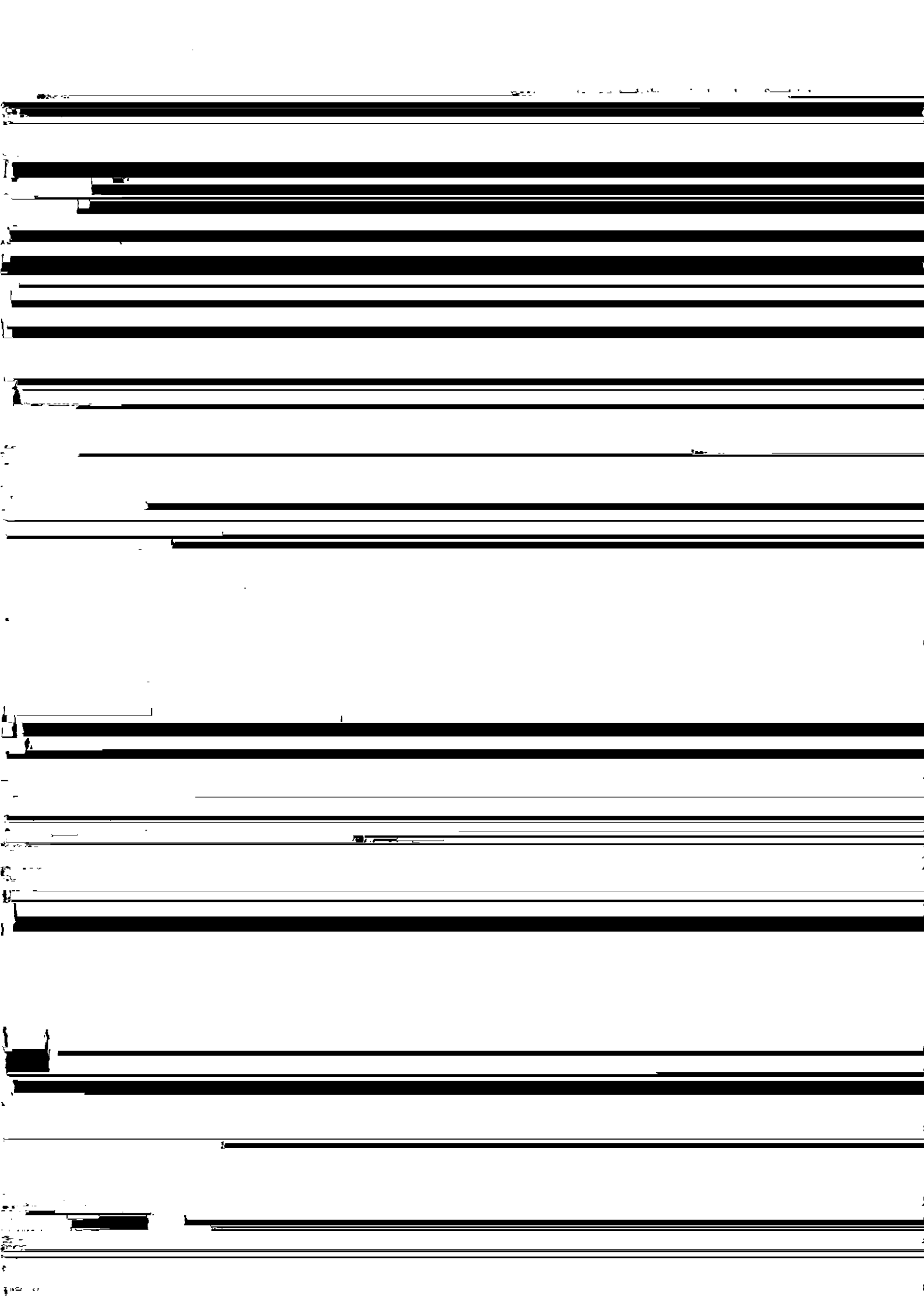
Synopsis:

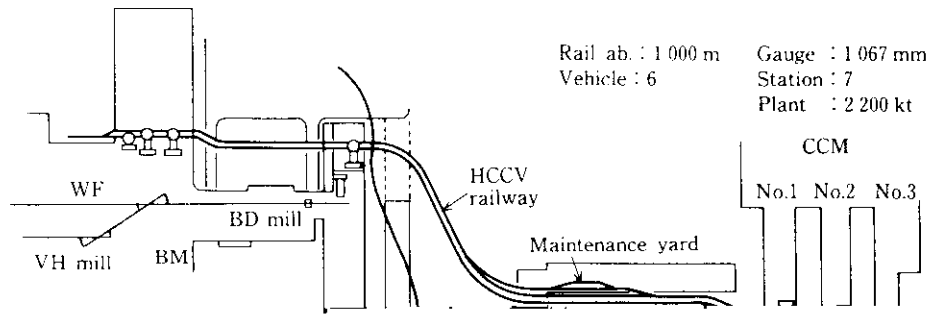
Highly computer-controlled vehicle (HCCV) system was brought into operation in February 1984 between the No. 1 steelmaking plant and the new billet mill, a wide flange beam mill, at Mizushima Works.

Features and purposes of HCCV system are

(1) Realization of Perfect Automatization in Material Transportation

Blooms can be automatically received and fed by com-





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Fig. 1. Layout of HCCV system.

- (1) Simplification of control has been achieved by separating the independent loading and unloading railways, with the aim of ensuring the reliability and safety of transportation capacity and system.

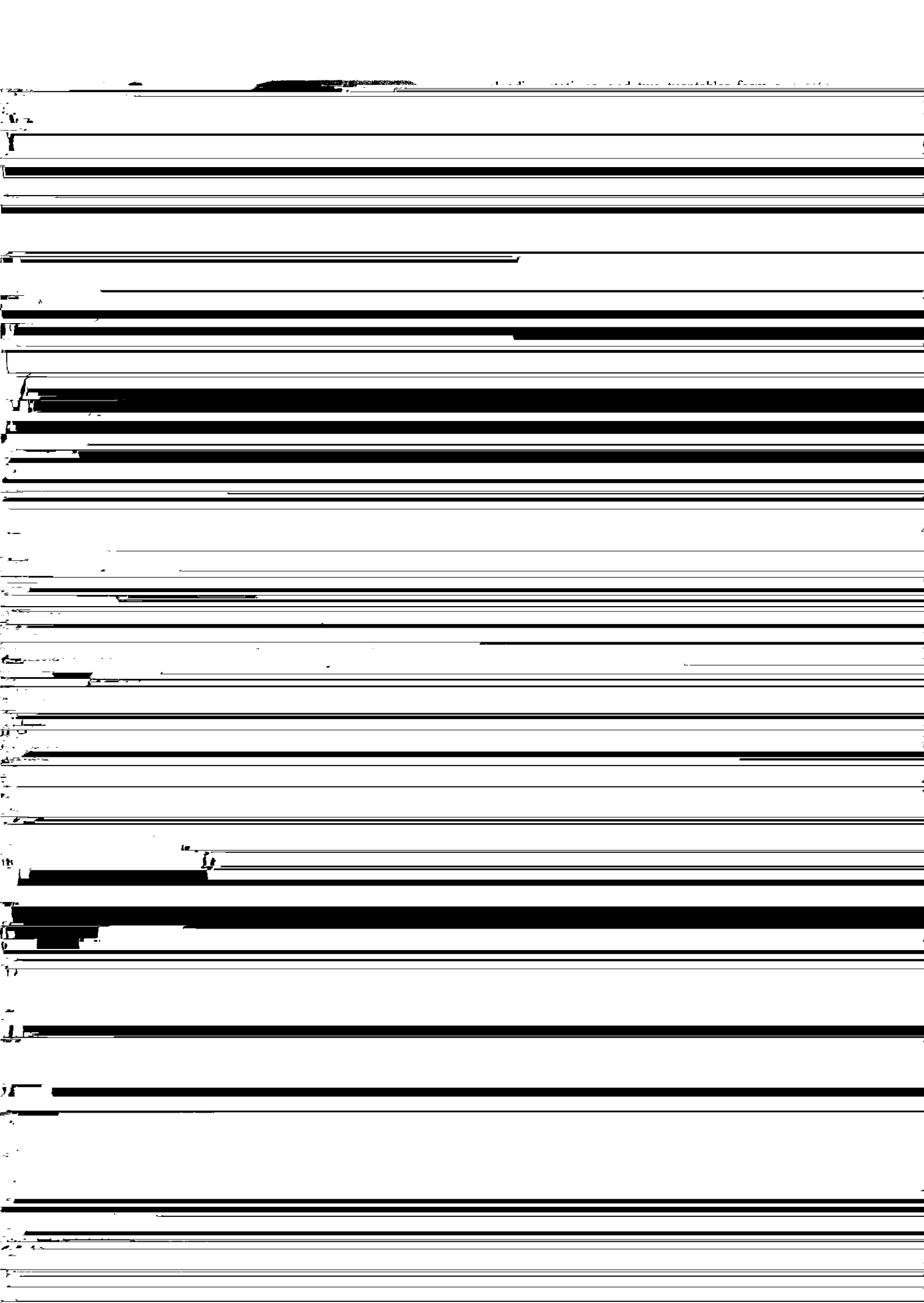
above to prevent abrasion of rails and to relieve the load of daily maintenance of rails.

4.2 Outline of Mechanical Equipment

- (2) The entire lines including loading and unloading processes have been fully automated, but the maintenance work has been excluded from the scope of

4.2.1 Vehicles

Cost-effective that can be loaded and transported



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furnace of the new billet mill. It is directly linked with a loop-antenna type inductive radio device for signal delivery with the vehicle as well as turntables and unloading

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gles from CRT-S and system registration informa-

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times. However, since it is an unattended transportation system between distant plants, its interaction with other

