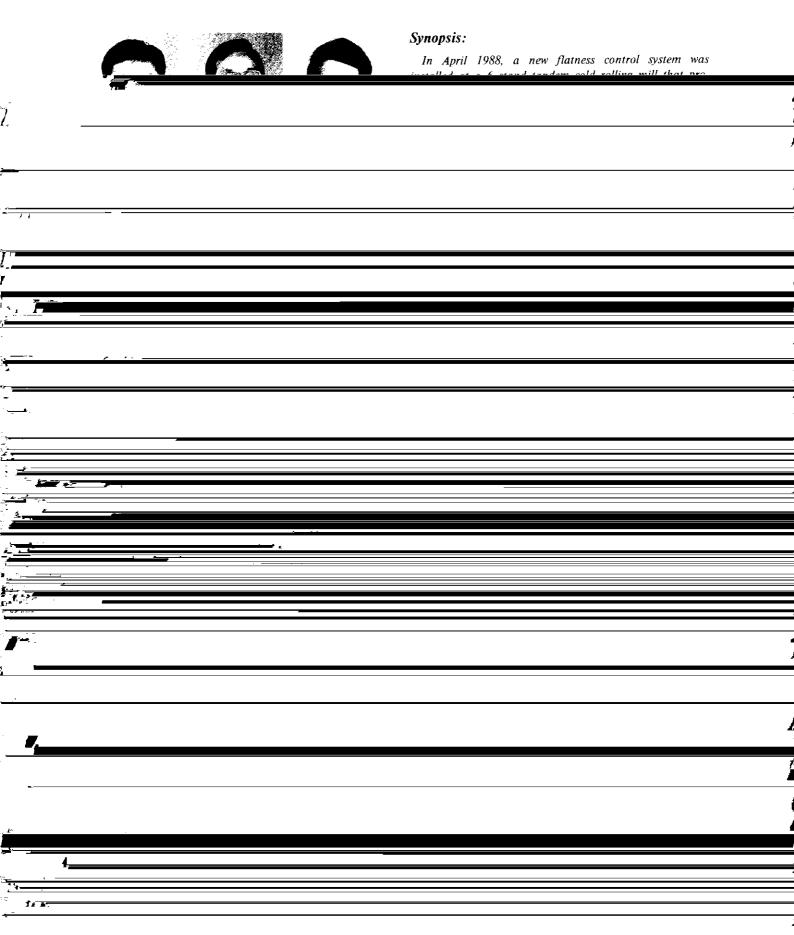
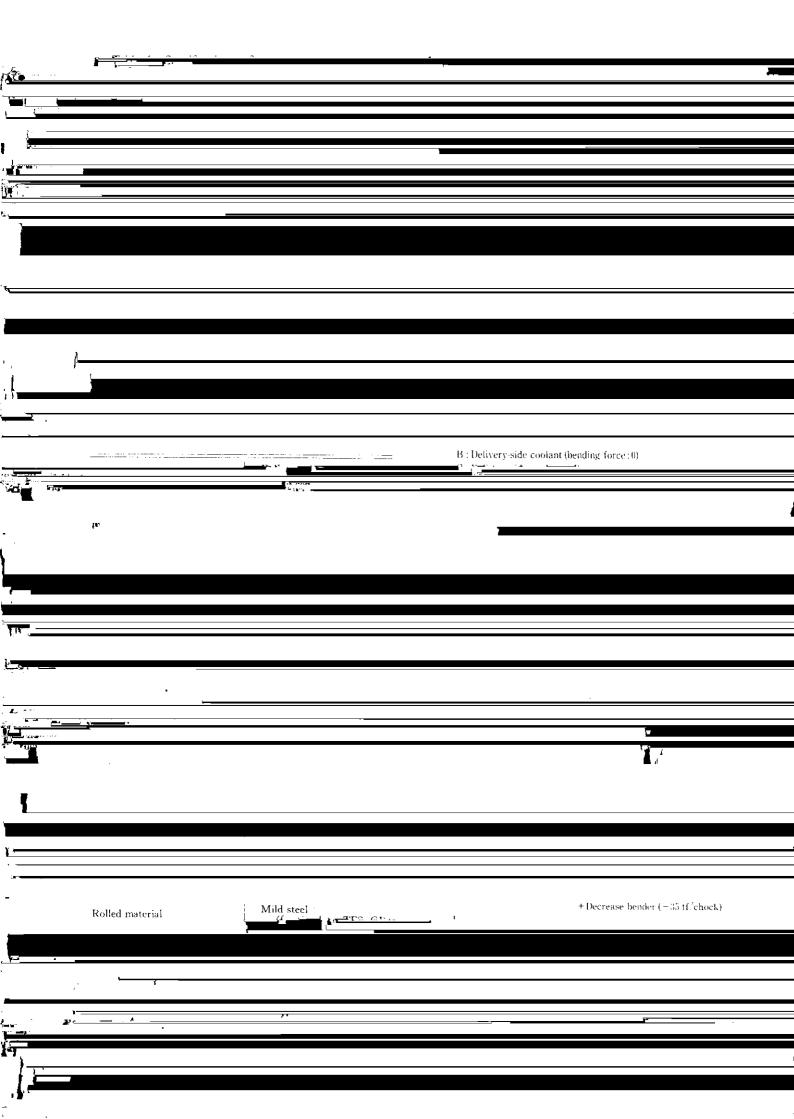
Automatic Flatness Control System in Tandem Cold Rolling Mill for Ultra-thin Gauge Strip^*





Accuracy (2σ)	(I-unit)	2.6
Period of output	(s)	0.35
Number of channels		
52-mm wide channel		10
26-mm wide channel		30
Total		40

 $B \times Zone$:

 $I_i = \frac{\Delta \sigma_i}{E} \cdot \dots \cdot (2)$

 F_i : Output at i channel

 \vec{F} : Average of F_i

T: Actual tension (kgf/mm²)

 $\Delta\sigma_i$: Distribution of tension (kgf/mm²)

E: Young's modulus (kgf/mm²)

1. Difference of elongation at i channel



Figure 3 shows the steepness comparison results between off-line and on-line measurements. The on-line

