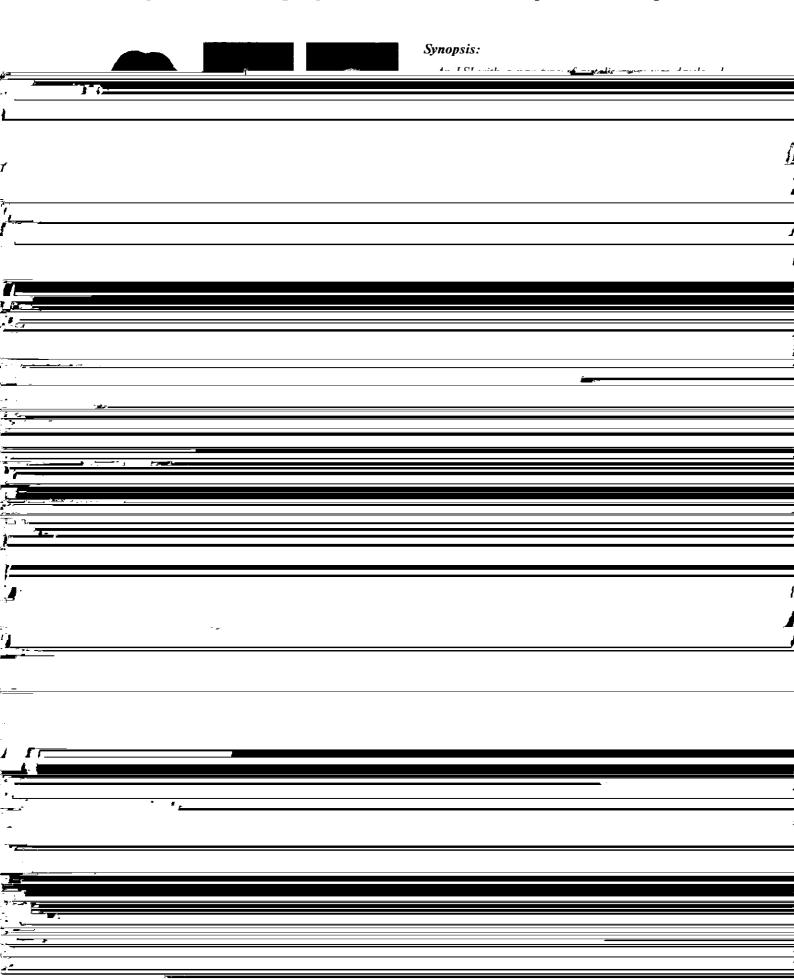
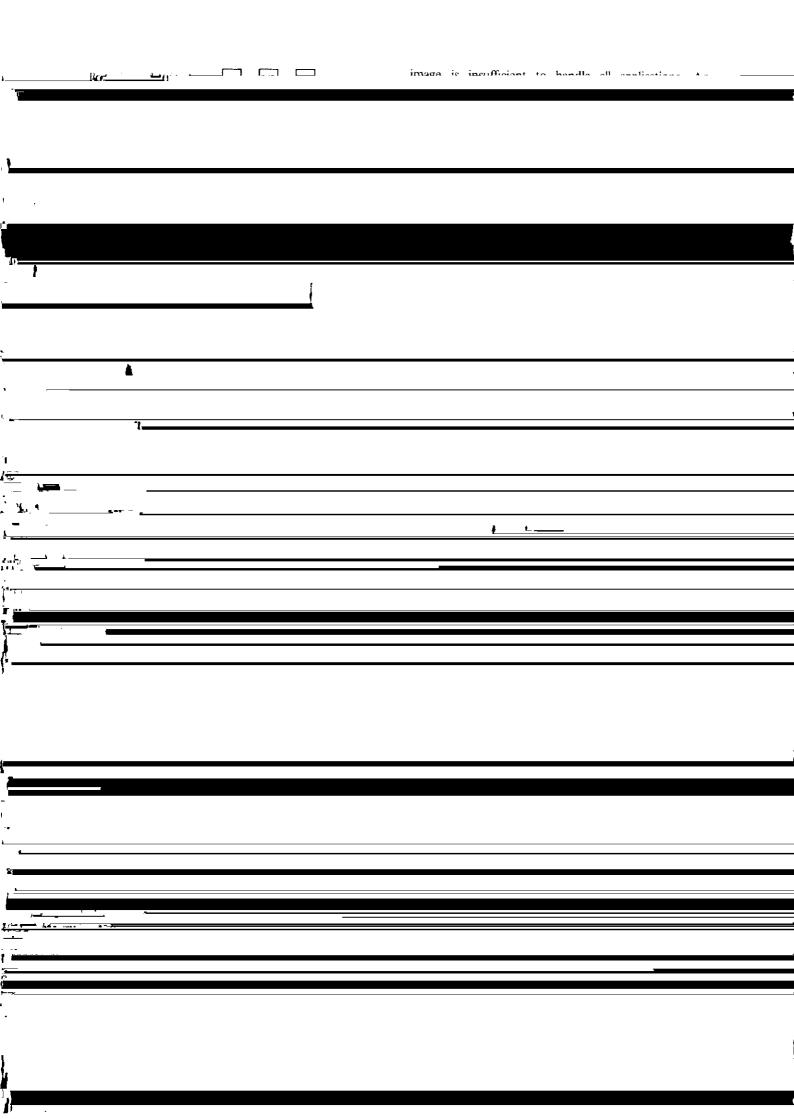
## KAWASAKI STEEL TECHNICAL REPORT

No.27 ( November 1992 )
Hot-Rolled, Cold-Rolled and
Surface Coated Steel Sheets
and Electronics and Instrumentation

Image Proces	ssing S	Syster	m with a	New Systo	olic Array LS	SI		
Akira Ichino Asano	ose, K	lenji	Suzuki,	Yoshinori	Wakimoto,	Mitsuru	Yanagisawa,	Yuichiro
Synopsis:								

## Image Processing System with a New Systolic Array LSI\*





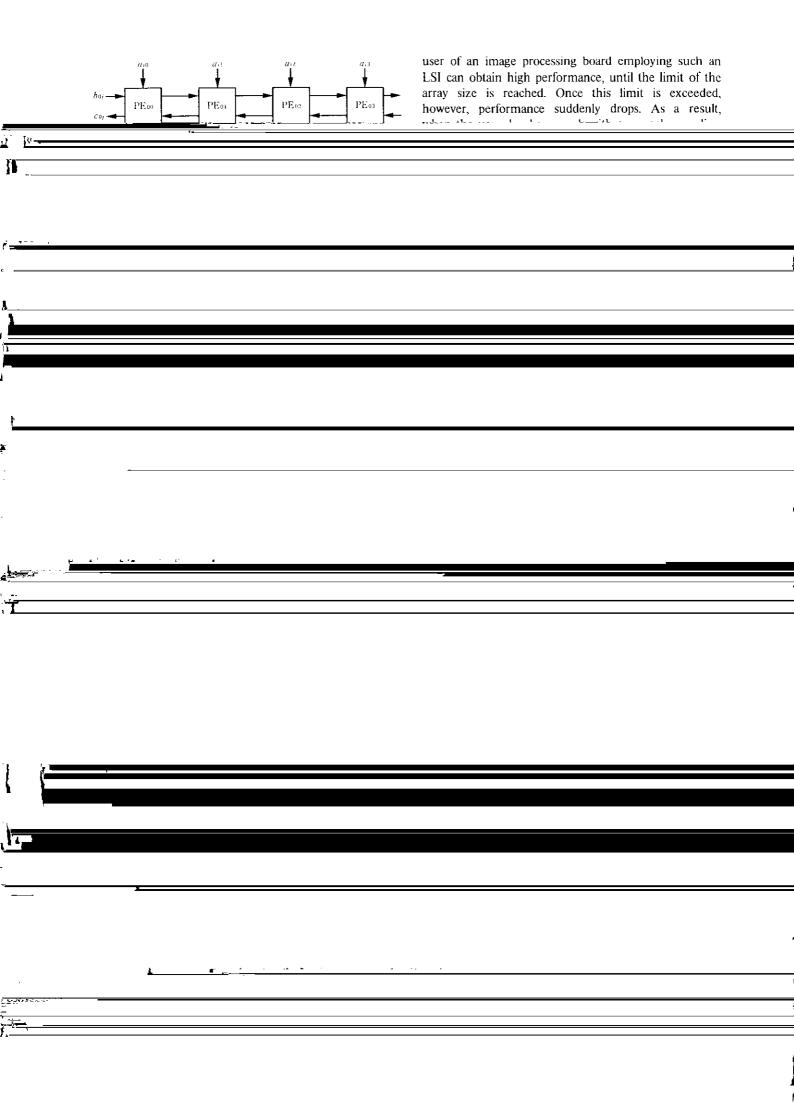


	Table 1 LSI function list	previous processing. The processing proceeds as follows:  (1) The image data are read from a memory block;
——————————————————————————————————————	**************************************	
	(4	
	· · ·	
	Twy.dimensional convolution	(2) 41 (3) 1
<del></del> _		
	<b>4</b>	
	Matrix-vector multiplication	array to carry out the convolution operation; (4) the
	Grav scale transformation with keak-up table	output local is adjusted by the monothal abilian decides

tical, the architecture could be simplified and independ-Dr. IMAGE II, which has the following features: ent operation of Dr. IMAGE II became possible. Com-(1) The image size and kernel size are variable so that a munication hatman the WC and Dr IMACE II are lama image -i-- /--- 4- 4 000 - 4 000 - 1 P - 1