KAWASAKI STEEL TECHNICAL REPORT

No.45 (November 2001)
"Developed Machinery Maintenance Technology
in Steelmaking Plant"

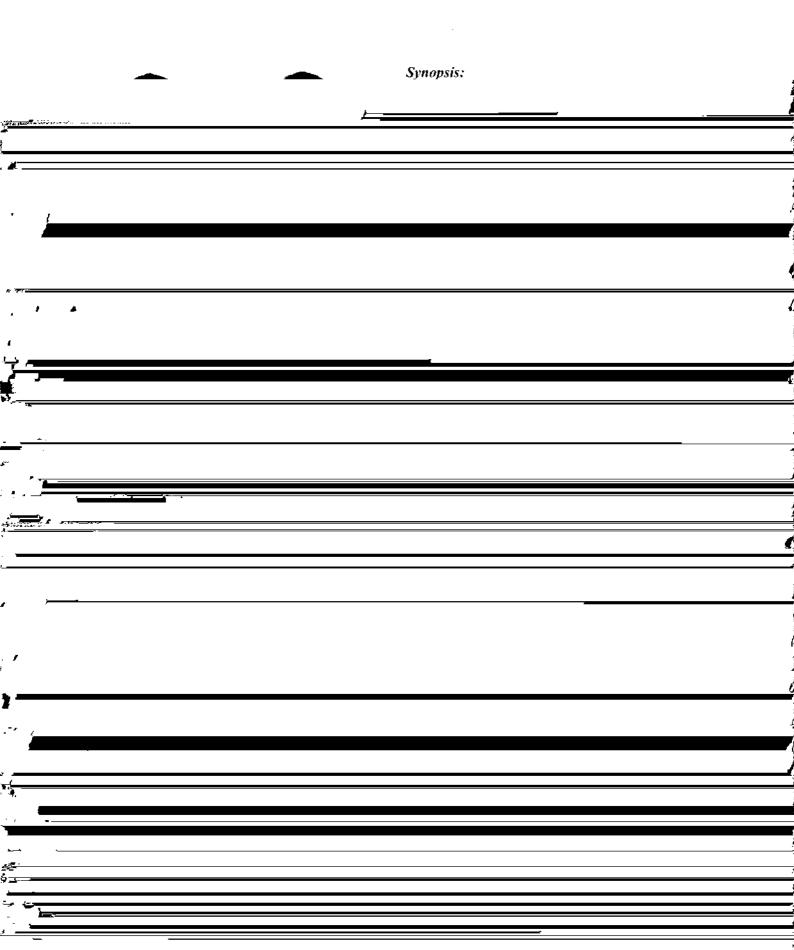
Management System Supporting Reliability of Equipment

Kitamura, H.; Fukumoto, M.

Synopsis:

An equipment maintenance management system has been developed with the purpose of

$\textbf{Management System Supporting Reliability of Equipment}^*$



2 Trends in Equipment Management Technology

Reviewing the history of equipment management in Japan, the 1950s was a period of preventive maintenance, which was introduced from the United States. In

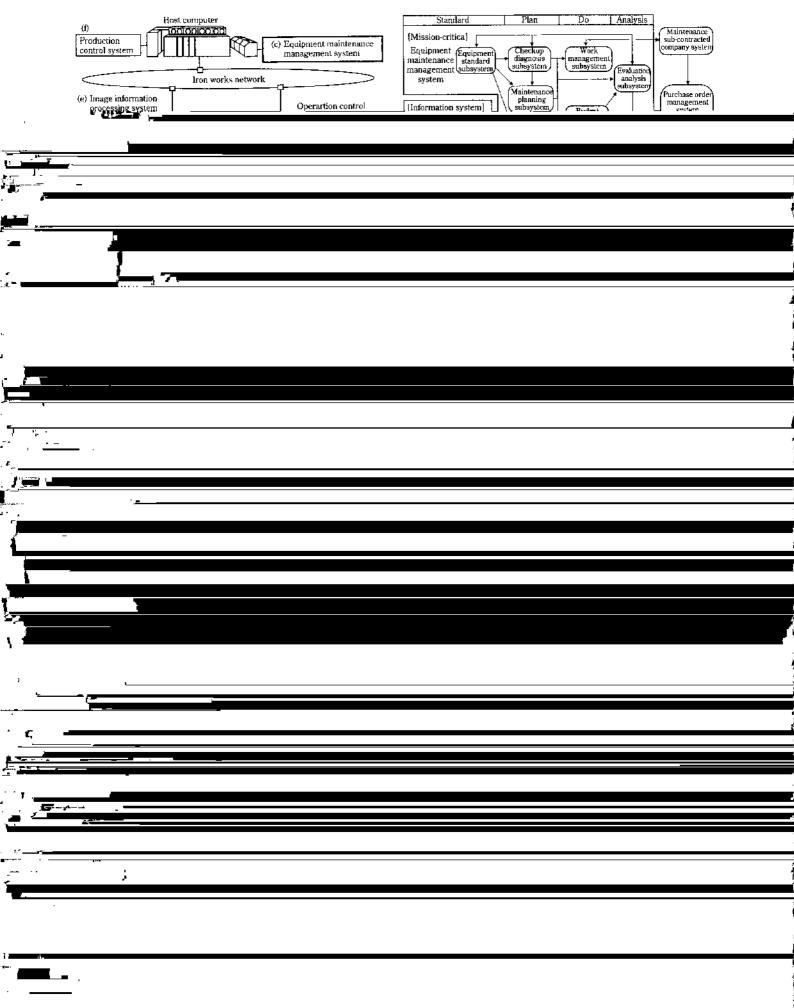
printer has been replaced by a high-speed laser printer giving distinct hardcopies.

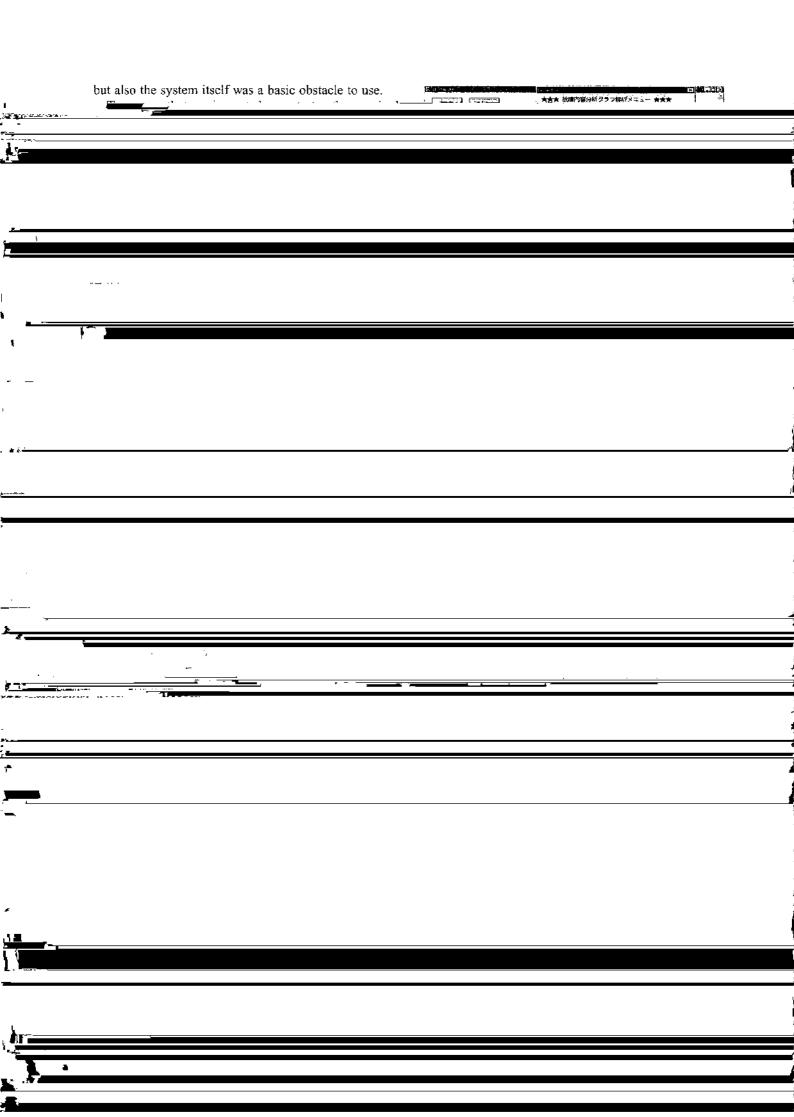
Under the circumstances, nowaday even operators at the work site use own personal computers, and it has become possible to perform all work from his or her own personal computer.

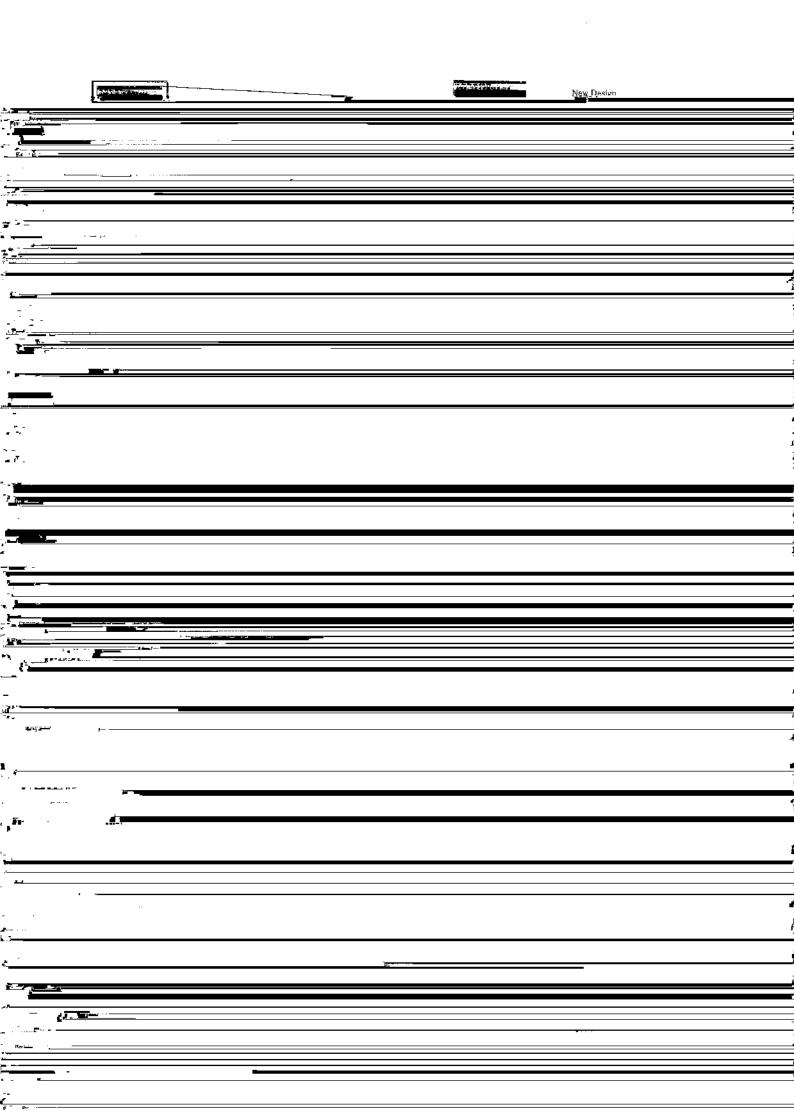
TI

TPM (total productive maintenance) began in the 1970s. Chronologically, so-called time based maintenance was practiced until the 1970s, and in the 1980s, predictive maintenance, namely, the concept of condition-based maintenance took root.

no longer used only by a limited number of equipment engineers, but has now been transformed into a general purpose system that can be used by all engineers and persons with practical work responsibilities by way of a







4) S. Kasai, Y. Kawamatsu, H. Kitamura, and T. Nishikawa:

5) T. Terada and T. Takano: 24th Ishikawa-syo Jyusyo-Kinen,

T Takana U Kitamura and T Nichibaura "Advanced Main-

Plant-Engineer, (1991)11, 48-54

(1993), 17

equipment, it seems that the role borne by technical

capabilities in maintenance will be even more important,

and development of theoretical equipment management

backed by measured data will become indispensable.