KAWASAKI STEEL TECHNICAL REPORT No. 19 November 1988

Energy-Dispersive X-Ray Diffraction*

Synopsis:

Energy dispersive X-ray diffraction (EDXRD) has been performed by measurement of diffracted white X-rays with the aid of a solid state detector (SSD) connected to a multichannel pulse-height analyzer (MCA). In this method, the fluorescent X-ray spectrum and several Bragg reflec-

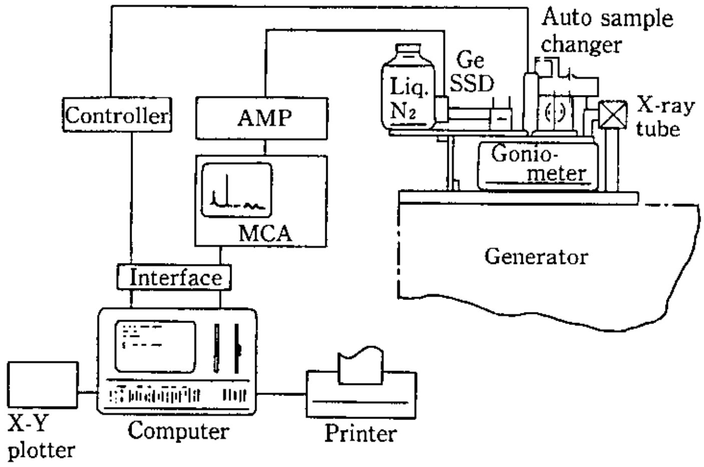
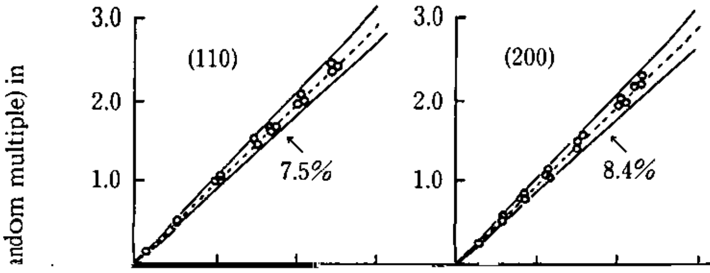


Fig. 2 Schematic representation of the energy-dispersive X-ray diffraction system


andom multiple) in
3.0
2.0
1.0
(110)
7.5%
3.0
2.0
1.0
(200)
8.4%

mated from the value [illegible]

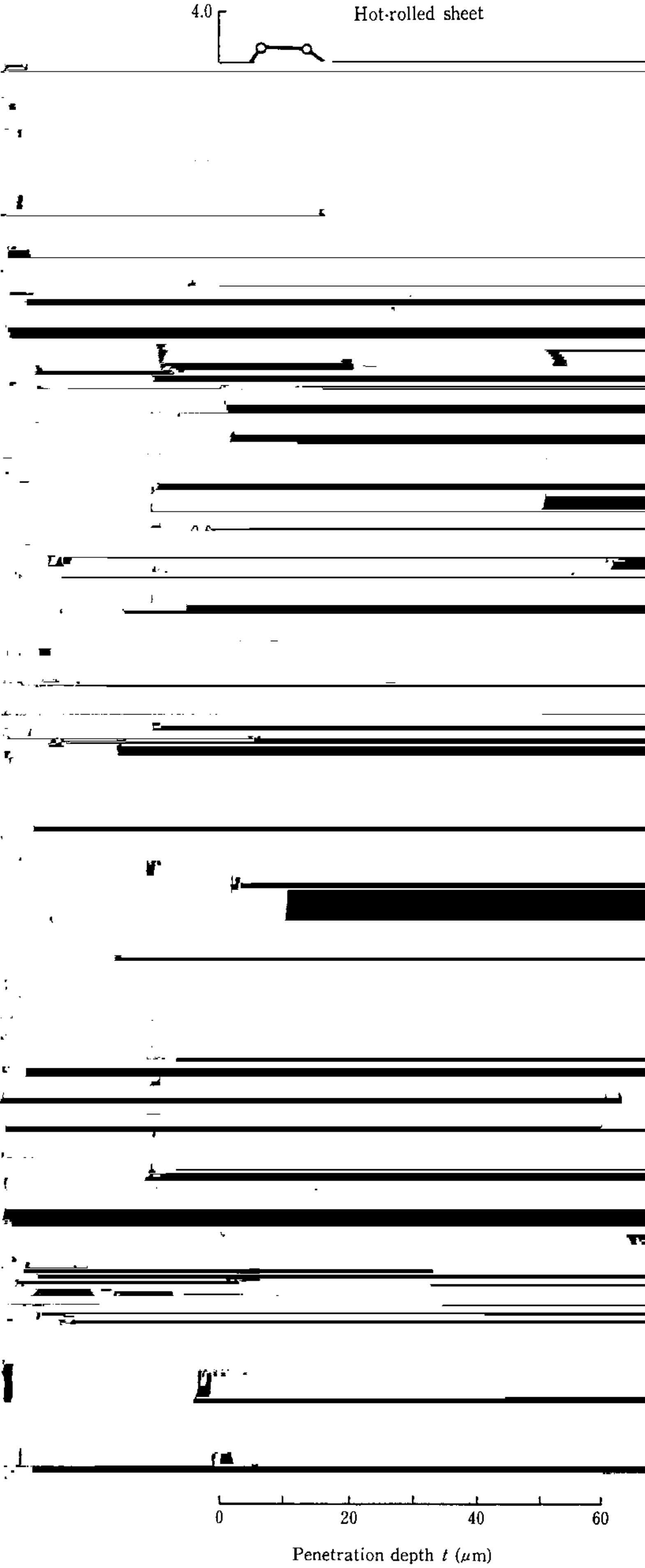


Fig. 8 Depth profiles of $\{hkl\}$//ND reflection intensities in a hot-rolled steel sheet

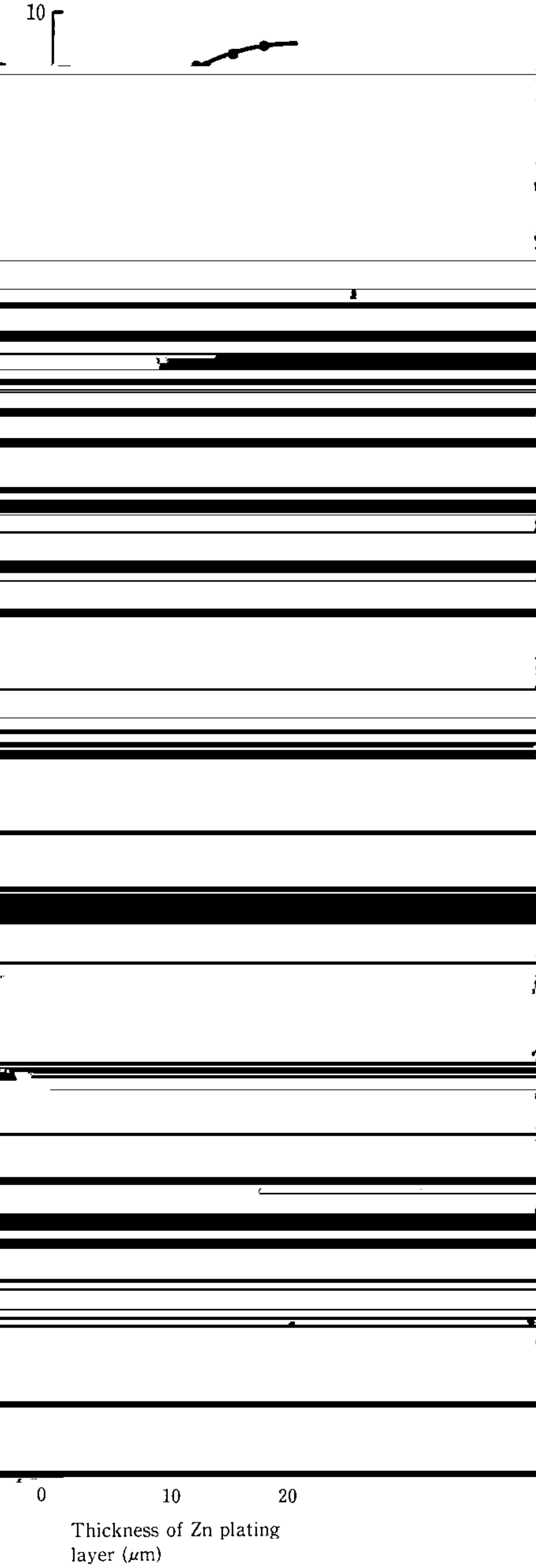


Fig. 10 Intensities of fluorescent X-ray of ZnKα in several kinds of plating thickness of the hot-dip galvanized steel sheet

layer. Such accumulation of (110) is influenced by the

Table 2. X-ray energy values and diffraction [illegible]