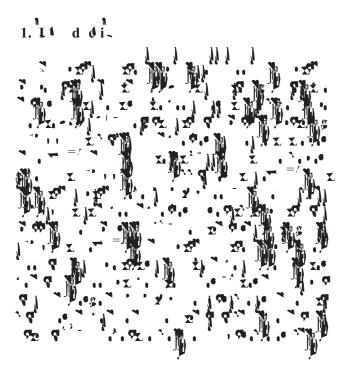
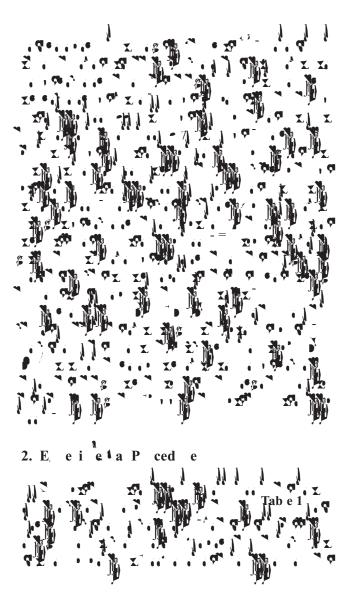
Quantitative Analysis of the Cr-depleted Layer in the Heat Affected Zone

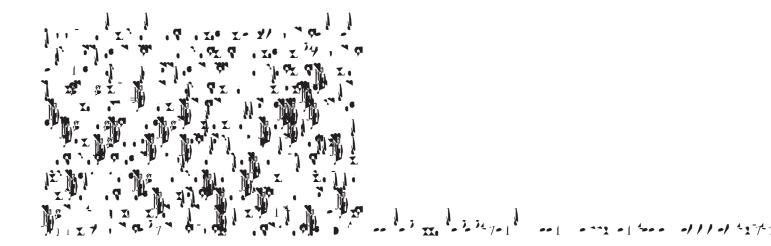
A , :

Intergranular stress corrosion cracking (IGSCC) has been observed in the heat affected zone (HAZ) of low carbon martensitic stainless steel. In this study, the authors assessed Cr-depleted zones at the grain boundaries by a STEM-EDX analysis and determined the morphology by deconvolution of the STEM-EDX results. Findings of the authors indicate that Cr-depleted zones of only a few nanometers in width are sufficient to cause IGSCC at the HAZ of low carbon martensitic stainless steel under certain circumstances.

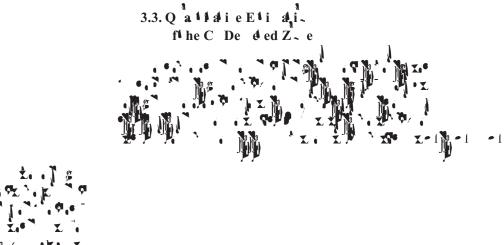




< 1. 1. 1.

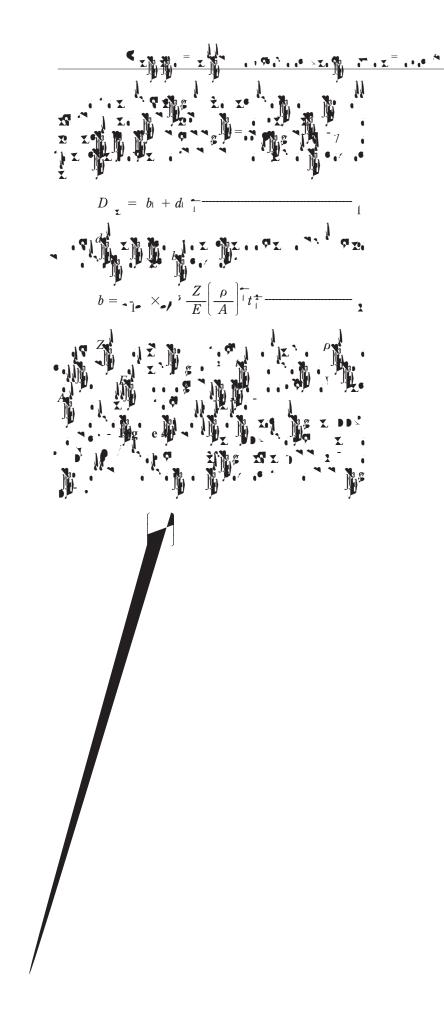


< 1.1 <u>, 27 × 28 mr.</u> ₩, 1980 11 × X1 1 , <u>,</u> **~** • **x** ⁼ Ă. (1 j⁶



JFE TECHNICAL REPORT N . 12 (Od . 2008)





1 2⁴ ¹ 24

7 3

11

tions. A summary of the distribution morphologies is shown in Table 3.)

