
In-situ μ | X - Wj & , / « - s m' y ¥ \ O' ċ v

In-situ High Temperature X-ray Diffraction Study on Phase Changes of Steel Materials

© G ' (Minoru Sakai) ™ t I (Toru Fujimura) T a U E (Keiichi Yoshioka)

Ÿ n :

« - s m' μ | & " fi / œ¥ < B : 9' ċ o' ž + & in-situ μ | X - Wj > —1 @ ‡
† ž ~ 2 > D 8 C 6 < A D ; 1 x L V \$ † ž Seemann-Bohlin 3 > ? \$ %k ¢ ² N f € 1
† ' / fl \$ & , . , < p - # ' s m' Š \ O 1 }] Ž / fl \$ ~ Q - & % ! ž ~ fl ' > —'
" † J \$ † " , ~ š H → + ! i - u ' S ¢ O \$ ' " ,) f - Y e - u ' 9 7 D @ ...h \$ '
1 }] † ž ~ R | d & _ g † ž X - Wj 9 = 5 ; @ ' }] • w , - , H → + ! i ` F ' Al
~ [N Ž / \$ S ¢ O ~ | / % / fl \$ ~ ^ ' ^ & € € Ł O ž ~ € K ± X { 4 9 " h 1 \ ° ž
^ ' - , - u 9 7 D @ ...h ' P g \$ ' ~ ± X { 4 9 h M ¶ O 2 ' q , · & f ³ Ł O / fl \$
~ € € Ł O ž ~

Synopsis :

A new-type in-situ X-ray diffractometer for high temperatures was developed in order to elucidate the mechanism of steel sheet production processes. The combined use of a Seemann-Bohlin camera equipped with imaging plates and a direct electrical heating furnace was successfully applied to accomplish the measurements of fast phase transformation. This apparatus was applied to the in-situ measurements of alloying process of galvanized steel sheets and oxidizing process of hot-

鉄鋼材料の構造変化の解析*

In-situ High Temperature X-ray Diffraction Study
on Phase Changes of Steel Materials

要旨





