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

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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*

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要旨





