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论文

CI^—致脆对不锈钢磨蚀的影响及其判据研究

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摘要:

测定了AISI304不锈钢在不同C1~一浓度的1m01/LH2SO4溶液中的静态腐蚀率及腐蚀损率。同时利用单摆冲击划痕实验机测定了 不同条件下材料表面划痕的长度随冲击能耗的变化及其比能耗值,证明了随 C 1 ^ 一浓度的增加,材料表面的比能耗下降,即腐蚀及腐蚀磨损作用加 剧原因系材料的表面变脆。

关键词: 腐蚀磨损 单摆划痕法 比能耗

EFFECT OF CI - INDUCED ENBRITTLEMENT ON CORROSIVE WEAR OF 304 STEEL AND IT'S EVALUATION

Abstract:

Static corrosion rate and corrosive wear loss of AISI304 stainless steel have been examined in 1mol/L H,SO, solution with different contents of C1-. Specific energy con- sumption and the relationship betweem scratch length and energy consumption in above con- dition 🖡 李诗卓 have been measured using single pendulum scratch device. Experimental results showed that the existence of C1- enhanced the corrosion and corrosion wear for 304 steel and with increasing C1- ,specific energy consumption of material surface decreased. It was sug- gested that the enhancement of corrosive wear of 304 steel would be the environmental em- brittlement resulting from C1-. corrosive wear, specific consumed energy, pendulum scratching

Keywords: corrosive wear specific consumed energy pendulum scratching

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