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1Cr18Ni9Ti不锈钢的非比例循环特性实验研究

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A N EXPERIMENTAL STUDY ON NONPROPORTIONAL CYCLIC PROPERTIES OF 1Cr18Ni9Ti STAINLESS STEEL

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摘要

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摘要 在高温多轴非比例循环加载下,对1Cr18Ni9Ti不锈钢进行了在单轴和圆形应变路径下的循环试验、非比例循环加载历史试验以及在圆形应变路径下的应变幅值历史效应的试验。研究了非比例循环附加硬化、应变幅值历史效应、循环加载历史效应及这些效应的温度依赖性,得到了若干有意义的结果。

关键词: 高温 非比例循环加载 温度依赖性

Abstract: series of tests was performed for 1Cr18Ni9Ti stainless steel under the complex uniaxial and multiaxial nonproportional cyclic, loadings at elevated temperatures. These tests include the ones under uniaxial and circular strain paths, the tests of the effects of strain amplitude histories along circular strain path and the ones under nonproportional cyclic loading histories. The effects and their temperature dependence of cyclic additional hardening, strain amplitude histories, and path histories for nonproportional cyclic loading are investigated, and some significant experimental results obtained.

Keywords: high temperature nonproportional loading temperature dependence

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