

## عنوان مقاله:

Numerical and Experimental Study on Cyclic Behavior of SS316 Stainless Steel under Strain Control Uniaxial Cyclic Loading

## محل انتشار:

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## خلاصه مقاله:

In this study, the cyclic behavior of SS316 stainless steel under strain control uniaxial cyclic loading is investigated experimentally and numerically at roomtemperature. The experimental tests were carried out by an INSTRON servohydraulic machine and ABAQUS software was considered for numerical simulation. Thesoftening or hardening behavior of the material under various loading condition as well as the effects of Relaxation on asymmetric cyclic loading are studied. Moreover, the effects of mean strain and strain amplitude on low cycle fatigue of the material areinvestigated. The numerical results showed acceptable compatibility with experimental results in most cases. Therefore, the ABAQUS software could use to simulate the cyclic behavior of SS316 stainless steel appropriately

كلمات كليدى:

Cyclic Behavior, Hardening, Softening, Numerical, Uniaxial cyclic loading

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