

## عنوان مقاله:

A multiaxial cyclic stress-strain relationship under both proportional and nonproportional loading

## محل انتشار:

پنجمین همایش بین المللی افق های نوین در مهندسی برق، کامپیوتر و مکانیک (سال: 1399)

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## خلاصه مقاله:

The ability to calculate elastic-plastic stress-strain relation is a prerequisite for achieving good fatigue life predictions. Determination of a multiaxial stress-strain relationship for multiaxial cyclic loading has been studied in this paper. A parameter that includes normal and shear strain based on critical plane method is used to consider the additional hardening effect of the material due to nonproportional loading. Von Mises' equivalent strain criterion is also used. The stress-strain relationship under multiaxial cyclic nonproportional loading is derived using the proportional loading stress-strain relationship.

## کلمات کلیدی:

Multiaxial, Nonproportional, Stress-strain relationship, additional hardening

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1042790>

