سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
گواهی ثبت مقاله در سیویلیکا
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## عنوان مقاله:

Hardness Modeling of Az81 Magnesium Alloy at DifferentElevatedTemperaturesand Strain Rates

## محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی در مهندسی صنایع و مهندسی مکانیک (سال: 1394)

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## خلاصه مقاله:

The hot deformation behavior of an AZ81 magnesium alloy was investigated by hot compressive testing on aSantam thermal mechanical simulator in the temperature of both 200 and 250°C and in the strain rate range of 0.00 s-1,0.01 s-1,0.1s-1 . The relationships amonghardness, strain rateand deformation temperature were analyzed. Hardness was decreased up to 59% by increasing temperature from 200c to 250c and also it increased 4% with the increase of strain rate ranging from 0.001 s-1to 0.01 s-1 and 3% for 0.01 s-1to 0.1s-1 in bothtemperatures.Average ratio of .hardness at both ends of sample to middle section was 1.3

## کلمات کلیدی:

AZ81 Magnesium Alloy, Hardness, strain rate, the bulk compression forming, extrusion

## لینک ثابت مقاله در پایگاه سیویلیکا:

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