

## عنوان مقاله:

Effect of the Molybdenum on the Microstructural and Mechanical Properties of Hadfield Austenitic Manganese Steel

## محل انتشار:

دومین همایش بین المللی و هفتمین همایش مشترک انجمن مهندسی متالورژی ایران و انجمن علمی ریخته‌گری ایران (سال: 1392)

تعداد صفحات اصل مقاله: 7

## نویسندگان:

M. Mohammadnezhad - *Department of Materials Engineering, Isfahan University of Technology, Isfahan ۸۴۱۵۶-۸۳۱۱۱, Iran*

.V Javaheri - *Research and Development Unit of Isfahan Casting Industrial (ICI), Isfahan, ۸۳۳۵۱۱۱۱۱, Iran*

.M. Naseri - *Research and Development Unit of Isfahan Casting Industrial (ICI), Isfahan, ۸۳۳۵۱۱۱۱۱, Iran*

## خلاصه مقاله:

Hadfield austenitic manganese steels exhibits high toughness, high ductility, high work hardening ability and excellent wear resistance. Because of the excellent combination of these properties this steel has been accepted as a very useful engineering material. It is broadly used in the fields of earthmoving, mining, quarrying, oil well drilling, steelmaking, railroading, dredging, naval, lumbering excavators, and mineral crushing equipment. In this study the influence of various contact molybdenum on the microstructure and mechanical behavior of this alloy was investigated. The results are described and discussed using micro-hardness measurements, impact test, optical and scanning electronic microscopy and EDS analyses.

## کلمات کلیدی:

Hadfield; wear resistance; molybdenum; microstructure; mechanical properties

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/224316>

