

## عنوان مقاله:

effect of heat flux models on temperature distribution and fluid flow during gas tungsten arc welding

## محل انتشار:

کنگره بین المللی جوش و روشهای اتصال (سال: ۱۳۸۸)

تعداد صفحات اصل مقاله: ۹

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## خلاصه مقاله:

a three dimensional model is developed to predict temperature distribution and fluid flow during gas tungsten arc welding in order to analyze the influence of heat flux model on the geometrical appearance of weld pools and temperature distribution two types of heat sources with different natures based on gaussian surface heat flux and volumetric goldak's double ellipsoid heat flux distributions are employed then these heat flux schemes are implemented into the model for simulation of GTA welding of AA۱۰۵۰ using FLUENT -CFD software the transient .temperature distribution and temperature variations during welding for each heat flux model are predicted

## کلمات کلیدی:

gas tungsten arc welding, fluid flow ,heat transfer ,volumetric heat flux ,surface heat flux ,aluminium

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/۱۶۴۰۱۷>