

## عنوان مقاله:

MHD Fluid Flow due to a Stretching Rotating Disk: Entropy Generation Analysis

## محل انتشار:

دومین همایش ملی پژوهش های کاربردی در برق، مکانیک و مکترونیک (سال: 1393)

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## خلاصه مقاله:

In this article, the second law analysis of MHD fluid flow due to a stretching rotating disk with heat transfer are studied by using an analytical method, called homotopy analysis method (HAM). In this study the velocity profiles in all directions (radial, azimuthal and axial), temperature field and entropy generation have been investigated. Entropy generation equations are derived as the function of velocities and temperature distributions. The effects of flow parameters such as magnetic interaction parameter and Eckert number on the entropy generation are shown and discussed and also the path for optimizing the entropy generation is proposed

## کلمات کلیدی:

Entropy generation, MHD flow, Rotating disk, Radial stretching, HAM

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/387293>

