

## عنوان مقاله:

Stress Analysis and Fluid Solution of the Nozzles of the Elliot DYR Steam Turbine

## محل انتشار:

پنجمین کنفرانس بین المللی پژوهش های کاربردی در مهندسی برق مکانیک و مکاترونیک (سال: 1397)

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## خلاصه مقاله:

Fluid analysis in the nozzles of the Elliot DYR steam turbine is investigated, numerically. The nozzle geometry by means of reverse engineering was obtained. The results indicate pressure, temperature and velocity of the steam flow in the nozzle were compared to those obtained theoretically with one dimensional method. The results indicate that, there are good agreement between theoretical and numerical calculations. Stress distribution in the nozzle structure is studied by transferring the results of fluid analysis to finite element analysis (FEA). Results indicate that, inlet area has more stress compare to other areas.

## کلمات کلیدی:

.Nozzle, Fluid calculation, Stress analysis, Pressure, Temperature

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/869051>

