

عنوان مقاله:

Design of high-pressure piston pump for the application of aerospace

محل انتشار:

چهارمین کنفرانس بین المللی پژوهش های کاربردی در علوم و مهندسی (سال: 1398)

تعداد صفحات اصل مقاله: 15

نویسندگان:

abbasali saboktakin - Assistant Professor of Mechanical Engineering, sistan and blochestan university, zahedan, iran

mohammad monjezi - mechanical engeneering, sistan and blochestan university, zahedan, iran

sadeq qiassi - mechanical engeneering, sistan and blochestan university, zahedan, iran

خلاصه مقاله:

In this study, the performance and how to build a high-pressure pump as a feeding system for pressurizing fuel and an oxidizing to convey the flow and pressure in the combustion chamber and labor conditions will be used. This system will be active until the engine has finished working. The use of this pump in jet engines is suitable for high environmental pressure and high ambient temperature as well as fuel injection pressure in various conditions. In this approach, the first step is to explain how the pump works and performs, also, using MATLAB and FLUENT software, we perform various tests and check the performance of the pump. In the end, the results are analyzed, and the function that is expected from the pump is checked.

کلمات کلیدی:

Piston Pump, Propeller, Hydrogen Peroxide, Low pressure tanks, signal valve

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1000526>

