

### عنوان مقاله:

An Experimental Feasibility Study on Regenerative Semi-Active Suspension Systems

## محل انتشار:

دومین کنفرانس بین المللی آکوستیک و ارتعاشات (سال: 1391)

تعداد صفحات اصل مقاله: 7

نویسندگان: Mohammad Mehdi Naserimojarad - School of Electrical and Computer Engineering, Shiraz University

Ali Tadayoninejad - School of Mechanical Engineering, Shiraz University, Shiraz, Iran

Mehrdad Moallem - Professor, Mechatronic Systems Engineering, Simon Fraser University

,Mohammad Eghtesad - Professor, School of Mechanical Engineering, Shiraz University, Shiraz, Iran

### خلاصه مقاله:

This paper presents results of an experimental study on a regenerative semi-active suspension system. In this paper, a novel design of a suspension fork, equipped with an MR damper on one side and an electricgenerator on the other side, will be proposed. In this research the rotary electric generator is attached to agearbox which converts the linear displacement to unidirectional rotation. First, the system will be tested inorder to find an optimal input resistance of power converter attached to the regenerative damper for generatingmaximum power. The generated power is studied in each condition. Finally the effect of the MR damperon the vibrations of the system is studied

# کلمات کلیدی:

Semi-Active Regenerative suspension system; Energy Harvesting; Vibration Control

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/188858

