

## عنوان مقاله:

The Analysis and Design of Memristor Based High Frequency Filter

## محل انتشار:

سومین کنفرانس ملی و اولین کنفرانس بین المللی پژوهش هایی کاربردی در مهندسی برق، مکانیک و مکاترونیک (سال: 1394)

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## نویسندگان:

Sima Ahmari

mohammad bagher Tavakoli

farbod setoudeh

## خلاصه مقاله:

MEMRISTOR or „memory resister“ was formulated and named by Leon Chua in a 1971 paper. In 2008, a team at Hewlett Packard (HP) lab announced the development of a switching memristor based on a thin film of titanium dioxide. The application of a switchable memristor in a filter exhibits the behavior of fundamental parameters of the current. The results of simulation in advance design system (ADS) with an equivalent circuit demonstrated that a circuit with high filtering, high quality, cut off frequency regulation, ideal frequency response and low power consumption can be designed and implemented in memristor based filters.

## کلمات کلیدی:

Memristor, Memory resister, High frequency filter, Cut- off frequency

## لینک ثابت مقاله در پایگاه سیویلیکا:

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