

عنوان مقاله:

Review on Micro Electro Mechanical System(MEMS) and Radio Frequency MEMS(RFMEMS) switch matrix in space industry

محل انتشار:

همایش مهندسی برق و توسعه پایدار با محوریت دستاوردهای نوین در مهندسی برق (سال: 1392)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Seyed Mehdi Mosavi Badejani

Ashkan Alidousti

خلاصه مقاله:

Today increasing demand for low loss, high quality devices for high frequency applications has led to the development of MEMS devices in the RF domain. RF MEMS has changes gradually over the past decade and it has known as a possible technology for wireless, mobile, satellite communication and defense applications. Extensive research has been carried out to identify and overcome the limitations of RF MEMS technology for replacing PIN or FET based switches for low loss applications. In many cases, such RF MEMS components would not only substantially reduce size, weight, and power consumption, but also promise higher performance when compared to that of current technologies. This paper briefly presents the application areas of RF MEMS switch matrices in the space industry and also focuses on the research efforts that have gone into maturing this technology during recent years.

کلمات کلیدی:

MEMS, RFMEMS, Satellite, Space, Switch matrix

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/252606>

