

عنوان مقاله:

A Mathematical Dynamic Model for Static and Dynamic Behaviours of MEMS-based AC Voltage Reference Source

محل انتشار:

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خلاصه مقاله:

This paper proposes a complete dynamical model of MEMS-based AC voltage reference sources. Static and dynamic models are investigated in both ideal and non-ideal conditions. State space equations are proposed to extract the non-ideal dynamic model considering instability factors such as, offset voltage across dielectric layer and built-in voltage. These state space equations provide the opportunity to control system behaviour, enabling accurately stabilized reference voltages

کلمات کلیدی:

AC Voltage References, MEMS Capacitor, Built-in voltage, Modelling

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