

Abstracts

Modeling of MEMS capacitive switches by TLM

L. Vietzorreck, F. Coccetti, V. Chtchekaturov and P. Russer. "Modeling of MEMS capacitive switches by TLM." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1221-1224.

The high-frequency behaviour of a microelectromechanical capacitive switch is investigated using TLM. A post-processing of the time-domain signal is presented which avoids long calculation times. The calculated results of a metal membrane switch show very good agreement to results obtained by other numerical methods and measurements.

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