

Abstracts

Microelectromechanical systems (MEMS) actuators for antenna reconfigurability

R.N. Simons, Donghoon Chun and L.P.B. Katehi. "Microelectromechanical systems (MEMS) actuators for antenna reconfigurability." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. 1 [MWSYM]): 215-218 vol.1.

A novel microelectromechanical systems (MEMS) actuator for patch antenna reconfiguration is presented for the first time. A key feature is the capability of multi-band operation without greatly increasing the antenna element dimensions. Experimental results demonstrate that the center frequency can be reconfigured from few hundred MHz to few GHz away from the nominal operating frequency.

 [Return to main document.](#)