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[RF MEMS: Theory, Design, and Technology | Electrical and ...](#)

Radio frequency microelectromechanical systems (RF MEMS) can significantly reduce the size, weight, loss and power dissipation of RF components and exhibit a high potential in these areas [1] [2 ...

[\(PDF\) RF MEMS theory, design, and technology \[Book Review\]](#)

A radio-frequency microelectromechanical system is a microelectromechanical system with electronic components comprising moving sub-millimeter-sized parts that provide radio-frequency functionality. RF functionality can be implemented using a variety of RF technologies. Besides RF MEMS technology, III-V compound semiconductor, ferrite, ferroelectric, silicon-based semiconductor, and vacuum tube technology are available to the RF designer. Each of the RF technologies offers a distinct trade-off b

[Radio-frequency microelectromechanical system - Wikipedia](#)

Rf Mems. Theory, Design, and Technology. New RF and microwave frequency MEMS (microelectromechanical systems) have potentially enormous and widespread applications in the telecommunications industry. Components based on this technology such as switches, varactors, and phase shifters exhibit virtually no power consumption or loss, making them ideally suited for use in modern telecommunications and wireless devices.

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## RF MEMS: Theory, Design, and Technology | MEMS and ...

This book has quickly become the standard reference in the field of RF MEMS. It is the place to start when looking at performance of RF MEMS technologies and circuits built using RF MEMS devices. The focus is on device design and performance, with supporting material on device fabrication. One person found this helpful

## Amazon.com: Customer reviews: RF MEMS: Theory, Design, and ...

RF MEMS switches are the specific micromechanical switches that are designed to operate at RF-to-millimeter-wave frequencies (0.1 to 100 GHz). The forces required for the mechanical movement can be obtained using electrostatic, magnetostatic, piezoelectric, or thermal designs.

## RF MEMS switches and switch circuits - IEEE Journals ...

RF MEMS: theory, design, and technology. GM Rebeiz. John Wiley & Sons, 2004.  
3502: 2004: RF MEMS switches and switch circuits. GM Rebeiz, JB Muldavin. IEEE

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Microwave magazine 2 (4), 59-71, 2001. 1366: 2001: Double-slot antennas on extended hemispherical and elliptical silicon dielectric lenses.

[Gabriel M Rebeiz - Google Scholar](#)

Radio frequency micro electromechanical systems (RF MEMS) are an enabling technology for a new generation of intelligent antennas with the capability of dynamically self-adapting their properties in order to maintain performance under operational or environmental variations.

[RF MEMS antennas for wireless applications - ScienceDirect](#)

The MEMS acronym stands for Micro-Electromechanical System and is used to refer to components of which sub-millimeter-sized parts need to move for the components to have electronic functionality. RF MEMS passives, such as capacitors, inductors, resonators and switches, offer low loss, high Q factor, high linearity and good power handling.

## RF MEMS

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