



Mems for Automotive and Aerospace Applications

(Woodhead Publishing Series in Electronic and Optical Materials)

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MEMS for automotive and aerospace applications reviews the use of Micro-Electro-Mechanical-Systems (MEMS) in developing solutions to the unique challenges presented by the automotive and aerospace industries.

Part one explores MEMS for a variety of automotive applications. The role of MEMS in passenger safety and comfort, sensors for automotive vehicle stability control applications and automotive tire pressure monitoring systems are considered, along with pressure and flow sensors for engine management, and RF MEMS for automotive radar sensors. Part two then goes on to explore MEMS for aerospace applications, including devices for active drag reduction in aerospace applications, inertial navigation and structural health monitoring systems, and thrusters for nano- and pico-satellites. A selection of case studies are used to explore MEMS for harsh environment sensors in aerospace applications, before the book concludes by considering the use of MEMS in space exploration and exploitation.

With its distinguished editors and international team of expert contributors, MEMS for automotive and aerospace applications is a key tool for MEMS manufacturers and all scientists, engineers and academics working on MEMS and intelligent systems for transportation.

- Chapters consider the role of MEMS in a number of automotive applications, including passenger safety and comfort, vehicle stability and control
- MEMS for aerospace applications are also discussed, including active drag reduction, inertial navigation and structural health monitoring systems
- Presents a number of case studies exploring MEMS for harsh environment sensors in aerospace



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