



Ceramic Thick Films for MEMS and Microdevices (Micro and Nano Technologies)

Robert A. Dorey

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The MEMS (Micro Electro-Mechanical Systems) market returned to growth in 2010. The total MEMS market is worth about \$6.5 billion, up more than 11 percent from last year and nearly as high as its historic peak in 2007. MEMS devices are used across sectors as diverse as automotive, aerospace, medical, industrial process control, instrumentation and telecommunications - forming the nerve center of products including airbag crash sensors, pressure sensors, biosensors and ink jet printer heads. Part of the MEMS cluster within the **Micro & Nano Technologies Series**, this book covers the fabrication techniques and applications of thick film piezoelectric micro electromechanical systems (MEMS). It includes examples of applications where the piezoelectric thick films have been used, illustrating how the fabrication process relates to the properties and performance of the resulting device. Other topics include: top-down and bottom-up fabrication of thick film MEMS, integration of thick films with other materials, effect of microstructure on properties, device performance, etc.

- Provides detailed guidance on the fabrication techniques and applications of thick film MEMS, for engineers and R&D groups
- Written by a single author, this book provides a clear, coherently written guide to this important emerging technology
- Covers materials, fabrication and applications in one book

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