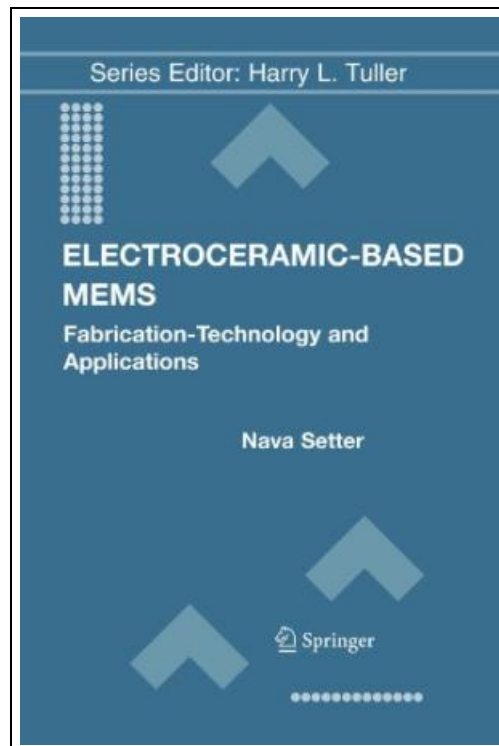


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Springer-Verlag New York Inc., United States, 2010. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The concept of micromachining of silicon to form micron-scale structures such as cantilevers, free-standing bridges, membranes, and channels and its combination with microelectronics fabrication methodology and technology has resulted in the emergence of a new category of functional systems called MEMS (microelectromechanical systems). MEMS are miniature systems containing devices or arrays of devices that combine electronics with other components such as sensors, transducers and actuators, and are fabricated by IC (Integrated Circuits) batch processing techniques. The field of electroceramics (inorganic, non-metallic materials, often polycrystalline, with useful electrical and other functional properties) provides a vast number of active materials for sensors, actuators, and electrical and electronic components. Electroceramic thin films can add therefore many useful functionalities to MEMS. At the same time, because the fabrication of ceramics is commonly a high temperature process that often necessitates an oxygen containing atmosphere, because most ceramics are inert and corrosion resistant, and because the properties of electroceramics are very sensitive to the processing conditions, the integration of electroceramic layers onto silicon or other substrates and their patterning into functional elements need complex technologies that are still under development. This situation is reflected in the current position of electroceramic-based MEMS in the market: While the potential is excellent, first devices are being commercialized only these present days. Softcover reprint of hardcover 1st ed. 2005.



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