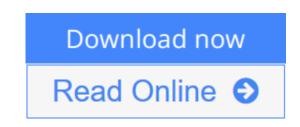


MEMS and MOEMS Technology and Applications (SPIE Press Monograph Vol. PM85)

By P. Rai-Choudhury



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Cost, size, speed, weight, and precision are driving the miniaturization of mechanical systems. This book presents a detailed look at two micromachining technologies that have evolved from the integrated circuits industry: MEMS (micro-electromechanical systems) and MOEMS (micro systems with a strong optical component). Useful as a professional reference, technology user's guide, and as a textbook.

Contents

- Preface
- MEMS/MOEMS Technology Capabilities and Trends
- Operation and Design of MEMS/MOEMS Devices
- Optical Microsystem Modeling and Simulation
- The Digital Micromirror Device: A Micro-Optical Electromechanical Device for Display Applications
- Optical Waveguides and Silicon-Based Micromachined Architectures

- Silicon Micromachines in Optical Communications Networks: Tiny Machines for Large Systems

- Assembly and Test for MEMS and Optical MEMS

- MEMS, Microsystems, Micromachines: Commercializing an Emergent Disruptive Technology

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