



Photonic MEMS Devices: Design, Fabrication and Control (Optical Science and Engineering)

Ai-Qun Liu

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Photonic MEMS devices represent the next major breakthrough in the silicon revolution. While many quality resources exist on the optic and photonic aspect of device physics, today's researchers are in need of a reference that goes beyond to include all aspects of engineering innovation.

An extension on traditional design and analysis, **Photonic MEMS Devices: *Design, Fabrication, and Control*** describes a broad range of optical and photonic devices, from MEMS optical switches and bandgap crystal switches to optical variable attenuators (VOA) and injection locked tunable lasers. It deals rigorously with all these technologies at a fundamental level, systematically introducing critical nomenclature. Each chapter also provides analysis techniques, equations, and experimental results. The book focuses not only on traditional design analysis, but also provides extensive background on realistic simulation and fabrication processes.

With a clear attention to experimental relevance, this book provides the fundamental knowledge needed to take the next-step in integrating photonic MEMS devices into commercial products and technology.

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