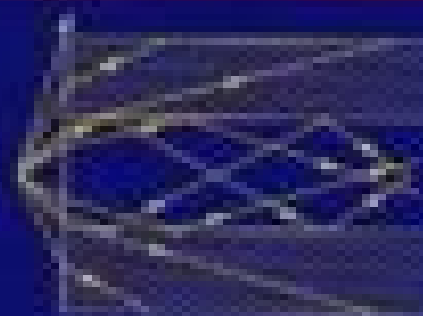


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# Handbook Of Microwave And Optical Components

**Kai Chang**



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*Introduction to Microelectromechanical Microwave Systems* Héctor J. de los Santos, 2004 Annotation The second edition covers the latest in fabrication technologies actuation mechanisms packaging switching resonator design and microwave and wireless applications This practical book steers readers past the drawbacks and towards the benefits of integrating RF microwave MEMS into communications equipment

**Silicon-Based Millimeter-Wave Devices** Johann-Friedrich Luy, Peter Russer, 2013-03-07 Silicon Based Millimeter Wave Devices describes field theoretical methods for the design and analysis of planar waveguide structures and antennas The principles and limitations of transit time devices with different injection mechanisms are discussed as are aspects of fabrication and characterization The physical properties of silicon Schottky contacts and diodes are treated in a separate chapter Two chapters cover the silicon germanium devices physics and RF properties of the heterobipolar transistor and quantum effect devices such as the resonant tunneling element are described The integration of devices in monolithic circuits is explained and advanced technologies are presented along with the self mixing oscillator operation Finally sensor and system applications are considered

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