



Periodic InP/Air Structures in Optical Filter Devices

By Thomas Kusserow

Shaker Verlag Mrz 2011, 2011. Taschenbuch. Book Condition: Neu. Neuware - Filter devices are a crucial element of analytic information systems which provide selective and evaluated signals when combined with detectors and processing units. Optical signals are advantageous due to their low susceptibility to perturbations, high potential bandwidth and fast propagation speed. Applications in the fields of data transmission or spectroscopic sensors are mainly located in the near infrared spectral range. In this thesis optical filter devices are investigated which are optimised for this spectral range and take further advantage of the properties of miniaturised structures (MEMS technology). As material system Indium Phosphide (InP) has been chosen which gives the best opportunity for integration of passive as well as active optoelectronic devices in the spectral range between 900 nm and 2400 nm. Periodic structures are implemented as base design element since these show a strong impact on the propagation properties which cannot be achieved by absorptive or dispersive elements and are due to interference effects of the also periodic light waves. An Introduction to elements like Bragg reflectors, Fabry-Pérot filters and Photonic Crystals is given. High contrast of refractive indices in the periodic structures is desired and hence air is...



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