



## Introduction to Micro- and Nanooptics

By Jürgen Jahns

Wiley VCH Verlag GmbH Jun 2012, 2012. Taschenbuch. Condition: Neu. Neuware - Dieses erste Lehrbuch, das Mikro- und Nanooptik unter einem Dach behandelt, führt Sie in Physik, Technologie und Schlüsselanwendungen gleichermaßen gründlich ein. Zunächst geht es um die Physik des Lichts, ergänzt durch Kapitel zu brechenden und beugenden optischen Elementen. Die erfahrenen Autoren erläutern lithographische und andere Herstellungsverfahren für mikro- und nanooptische Bauelemente vor. Im zweiten Teil werden detail- und kenntnisreich optische Mikrosysteme und Wellenleiter sowie optischen Nanostrukturen wie photonische Kristalle und Metamaterialien behandelt. Jedes Kapitel enthält Fragen und Aufgaben. Das Lehrbuch ist geeignet für Vorlesungen in Physik und angewandter Optik. This first textbook on both micro- and nanooptics introduces readers to the technological development, physical background and key areas. The opening chapters on the physics of light are complemented by chapters on refractive and diffractive optical elements. The internationally renowned authors present different methods of lithographic and nonlithographic fabrication of microoptics and introduce the characterization and testing of microoptics. The second part of the book is dedicated to optical microsystems and MEMS, optical waveguide structures and optical nanostructures, including photonic crystals and metamaterials. Each chapter includes exercises illustrating a sample approach to new and complex topics, making the textbook...



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