



Integrated Nanophotonic Devices, Second Edition (Micro and Nano Technologies)

Zeev Zalevsky, Ibrahim Abdulhalim

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Nanophotonics is a newly developing and exciting field, with two main areas of interest: imaging/computer vision and data transport. The technologies developed in the field of nanophotonics have far reaching implications with a wide range of potential applications from faster computing power to medical applications, and "smart" eyeglasses to national security.

Integrated Nanophotonic Devices explores one of the key technologies emerging within nanophotonics: that of nano-integrated photonic modulation devices and sensors. The authors introduce the scientific principles of these devices and provide a practical, applications-based approach to recent developments in the design, fabrication and experimentation of integrated photonic modulation circuits.

For this second edition, all chapters have been expanded and updated to reflect this rapidly advancing field, and an entirely new chapter has been added to cover liquid crystals integrated with nanostructures.

- Unlocks the technologies that will turn the rapidly growing research area of nanophotonics into a major area of commercial development, with applications in telecommunications, computing, security, and sensing
- Nano-integrated photonic modulation devices and sensors are the components that will see nanophotonics moving out of the lab into a new generation of products and services
- By covering the scientific fundamentals alongside technological applications, the authors open up this important multidisciplinary subject to readers from a range of scientific backgrounds

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