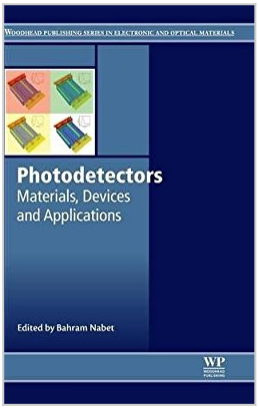

Photodetectors: Materials, Devices and Applications

By Bahram Nabet

Photodetectors: Materials, Devices and Applications By Bahram Nabet

Photodetectors: Materials, Devices and Applications discusses the devices that convert light to electrical signals, key components in communication, computation, and imaging systems.

In recent years, there has been significant improvement in photodetector performance, and this important book reviews some of the key advances in the field.

Part one covers materials, detector types, and devices, and includes discussion of silicon photonics, detectors based on reduced dimensional charge systems, carbon nanotubes, graphene, nanowires, low-temperature grown gallium arsenide, plasmonic, Si photomultiplier tubes, and organic photodetectors, while part two focuses on important applications of photodetectors, including microwave photonics, communications, high-speed single photon detection, THz detection, resonant cavity enhanced photodetection, photo-capacitors and imaging.

- Reviews materials, detector types and devices
- Addresses fabrication techniques, and the advantages and limitations and different types of photodetector
- Considers a range of application for this important technology
- Includes discussions of silicon photonics, detectors based on reduced dimensional charge systems, carbon nanotubes, graphene, nanowires, and more

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