

## eBook Information

# Detectors and Sources for THz and IR

**Fedir F. Sizov**

Monograph / PDF eBook DRM Free

IR and THz technologies are widely used in security screening and surveillance, astronomy, spectroscopy, biomedicine, food and package inspection, detection of concealed weapons, vision through camouflage, etc.

*Keyword:* THz and IR Detectors, THz and IR Sources, Superconducting Photon Detectors, Superconducting THz Detectors, Graphene-based Detectors, THz Sensors with Metamaterials, Photoconductive Antenna Detectors, Imaging, Communication, Spectroscopy, Sensing, Security Screening, Surveillance, Astronomy, Biomedicine, Food Inspection, Package Inspection, Concealed Weapons Detection, Transmission of Large Amounts of Data, Non-destructive Testing, Contact-free Testing, Medical Imaging Technologies

**ISBN 13:** 978-1-64490-075-8, **Publication Date:** 2020 (5/5/2020)

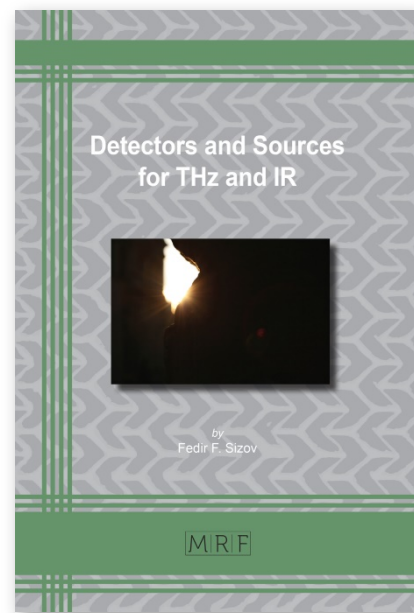
**Direct URL:** <https://www.mrforum.com/product/detectors-and-sources-for-thz-and-ir>  
330 pages, PDF eBook DRM Free, USD 125.00

*Materials Research Foundations Vol. 72* / **BISAC:** TEC021000 / **BIC/Thema:** TGM

**Imprint:** Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

IR and THz technologies are widely used in security screening and surveillance, astronomy, spectroscopy, biomedicine, food and package inspection, detection of concealed weapons, vision through camouflage, etc. There are increasing demands for the fast transmission of large amounts of data. THz radiation penetrates dielectric materials like plastics, ceramics or cardboard allowing contact-free testing. Medical imaging technologies can provide guidance for surgeons in delimiting the margins of tumors, help clinicians to visualize diseased areas, etc.



## Book Information

# Detectors and Sources for THz and IR

**Fedir F. Sizov**

Monograph / color print, paperback

IR and THz technologies are widely used in security screening and surveillance, astronomy, spectroscopy, biomedicine, food and package inspection, detection of concealed weapons, vision through camouflage, etc.

*Keyword:* THz and IR Detectors, THz and IR Sources, Superconducting Photon Detectors, Superconducting THz Detectors, Graphene-based Detectors, THz Sensors with Metamaterials, Photoconductive Antenna Detectors, Imaging, Communication, Spectroscopy, Sensing, Security Screening, Surveillance, Astronomy, Biomedicine, Food Inspection, Package Inspection, Concealed Weapons Detection, Transmission of Large Amounts of Data, Non-destructive Testing, Contact-free Testing, Medical Imaging Technologies

**ISBN 13:** 978-1-64490-074-1, **Publication Date:** 2020 (5/5/2020)

**Direct URL:** <https://www.mrforum.com/product/detectors-and-sources-for-thz-and-ir>  
330 pages, color print, paperback, USD 125.00

*Materials Research Foundations Vol. 72* / **BISAC:** TEC021000 / **BIC/Thema:** TGM

**Imprint:** Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

IR and THz technologies are widely used in security screening and surveillance, astronomy, spectroscopy, biomedicine, food and package inspection, detection of concealed weapons, vision through camouflage, etc. There are increasing demands for the fast transmission of large amounts of data. THz radiation penetrates dielectric materials like plastics, ceramics or cardboard allowing contact-free testing. Medical imaging technologies can provide guidance for surgeons in delimiting the margins of tumors, help clinicians to visualize diseased areas, etc.

