



## **Laser-Based Optical Detection of Explosives (Devices, Circuits, and Systems)**

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# Laser-Based Optical Detection of Explosives (Devices, Circuits, and Systems)

## Laser-Based Optical Detection of Explosives (Devices, Circuits, and Systems)

**Laser-Based Optical Detection of Explosives** offers a comprehensive review of past, present, and emerging laser-based methods for the detection of a variety of explosives. This book:

- Considers laser propagation safety and explains standard test material preparation for standoff optical-based detection system evaluation
- Explores explosives detection using deep ultraviolet native fluorescence, Raman spectroscopy, laser-induced breakdown spectroscopy, reflectometry, and hyperspectral imaging
- Examines photodissociation followed by laser-induced fluorescence, photothermal methods, cavity-enhanced absorption spectrometry, and short-pulse laser-based techniques
- Describes the detection and recognition of explosives using terahertz-frequency spectroscopic techniques

Each chapter is authored by a leading expert on the respective technology, and is structured to supply historical perspective, address current advantages and challenges, and discuss novel research and applications. Readers are left with an in-depth understanding and appreciation of each technology's capabilities and potential for standoff hazard detection.

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