### DESCRIPTION

The book gives an introduction to energetic materials and lasers, properties of such materials and the current methods for initiating energetic materials. The following chapters and sections highlight the properties of lasers, and safety aspects of their application. It covers the properties of in-service energetic materials, and also materials with prospects of being used as insensitive ammunitions in future weapon or missiles systems or as detonators in civilian (mining) applications. Because of the diversity of the topics some sections will naturally separate into different levels of expertise and knowledge.

### ABOUT THE AUTHOR

**Dr S Rafi Ahmad** founded and led the Centre for Applied Laser Spectroscopy (CALS) within the Department of Applied Science, Security and Resilience, Cranfield University from 1988 to 2013. He has been active for the last 3 decades in managing/supervising many R&D projects and PhD research students in the field of directed laser and applied laser spectroscopy. Dr Ahmad has authored 52 peer-reviewed publications in scientific journals, and co-authored a book with Dr Cartwright.

**Dr Michael Cartwright** works on novel explosive compounds and the design of safer formulations and disposal of time expired and unexploded ordnance. He graduated in Chemistry from London University in the 1960s. His first employment was with the UKAEA at Windscale and Calder Hall establishment examining analytical methods for novel nuclear fuels and processing technologies. He researched on sterilisation methods for the Milton Division of Vick International followed by research in nuclear
damage processes in solids and organo-metallic chemistry at the University of Bath before moving to Cranfield University at the Royal Military College of Science in 1986. Dr Cartwright has authored over 80 papers in refereed journals and published conference proceedings, and a co-authored book.

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