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### Laser Ignition Of Energetic Materials

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Laser Ignition of Energetic Materials, Hardcover by Ahmad, S. Rafi; Cartwright, Michael, ISBN 0470975989, ISBN-13 9780470975985, Brand New, Free shipping in the US The book gives an introduction to energetic materials and lasers, properties of such materials and the current methods for initiating energetic materials.

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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.

### Laser Ignition of Energetic Materials / Edition 1 by S ...

The laser Ignition of Energetic Materials Workshop was originated by Brad Forch, Austin Barrows, Richard Beyer and Arthur Cohen of the Army Research Laboratory (ARL). Lasers inherently possess many desirable attributes making them excellent igniters for a wide range of energetic materials such as pyrotechnics, explosives, and gun propellants.

### Laser Ignition of Energetic Materials Workshop - NASA/ADS

Aug 29, 2020 laser ignition of energetic materials Posted By Edgar WallaceMedia Publishing TEXT ID f372946e Online PDF Ebook Epub Library the material and thereby to induce its interactions between energetic materials and laser beams of specific frequency are of both scientific and engineering importance for understanding and

### laser ignition of energetic materials

Tiivistelmä The diode laser is increasingly used as an ignition device for pyrotechnic mixtures or propellants and for explosives. The ignition properties of different energetic materials are important for understanding the ignition mechanism or choosing the best or suitable material for the current laser ignition application.

### Confinement in the diode laser ignition of energetic materials

We present a model for simulating high energy laser heating and ignition of confined energetic materials. The model considers the effect of irradiating a steel plate with long laser pulses and...

### Modeling of high energy laser ignition of energetic materials

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### Laser Ignition Of Energetic Materials [EBOOK]

The diode laser is increasingly used as an ignition device for pyrotechnic mixtures or propellants and for explosives. The ignition properties of different energetic materials are important for understanding the ignition mechanism or choosing the best or suitable material for the current laser ignition application.

### Confinement in the diode laser ignition of energetic materials

Abstract. The RDX single crystals are ignited by ultraviolet laser (355 nm, 6.4 ns) pulses. The laser-induced damage morphology consisted of two distinct regions: a core region of layered fracture and a peripheral region of stripped material surrounding the core. As laser fluence increases, the area of the whole crack region increases all the way, while both the area and depth of the core region increase firstly, and then stay stable over the laser fluence of 12 J/cm<sup>2</sup>.

### Ultraviolet Laser-induced ignition of RDX single crystal

Laser Ignition of Energetic Materials 1st Edition, Kindle Edition by S Rafi Ahmad (Author), Michael Cartwright (Author) Format: Kindle Edition. 5.0 out of 5 stars 1 rating. Flip to back Flip to front. Audible Sample Playing... Paused You are listening to a sample of the Audible ...

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Ignition of energetic materials is a complex dynamic process when a laser beam is incident on an explosive material it provides the energy to heat the material and thereby to induce its exothermic molecular decomposition such localised heat diffuses into the surrounding regions and causes further decomposition of the material as the

### Laser Ignition Of Energetic Materials

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Some fluoropolymer materials can be poled, and when combined with fuels, such as aluminum become energetic. Our recent work has explored how these multifunctional materials might be exploited to enable external control of burning rate and ignition.