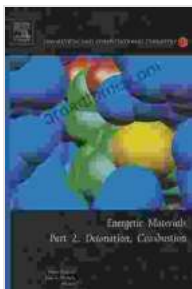


The Ultimate Guide to Energetic Materials: Detonation and Combustion

Energetic materials are a fascinating and complex class of substances that have the ability to release enormous amounts of energy in a short period of time. This makes them ideal for use in a variety of applications, such as propellants, explosives, and fireworks. However, the development and use of energetic materials also poses a number of risks, including the potential for accidents and explosions.

This article provides a comprehensive overview of energetic materials, their properties, and their applications. We will also discuss the risks associated with energetic materials and the precautions that must be taken when handling them.

Energetic materials are substances that contain a high concentration of energy that can be released in a short period of time. This energy is typically stored in the chemical bonds of the material. When the material is subjected to a stimulus, such as heat, shock, or friction, the chemical bonds break and the energy is released.



Energetic Materials: Part 2. Detonation, Combustion **(ISSN Book 13)** by Tim Sheets

★★★★★ 5 out of 5

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File size : 23833 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 474 pages
Screen Reader : Supported



Energetic materials can be classified into two main types:

- **High explosives** are energetic materials that release their energy very quickly, producing a shock wave. This makes them ideal for use in applications such as mining and demolition.
- **Low explosives** are energetic materials that release their energy more slowly, producing a burning effect. This makes them ideal for use in applications such as propellants and fireworks.

The properties of energetic materials vary depending on their chemical composition. However, there are some general properties that are common to all energetic materials. These properties include:

- **High energy content**
- **Thermal stability**
- **Shock sensitivity**
- **Impact sensitivity**
- **Frictional sensitivity**

Energetic materials have a wide range of applications, including:

- **Propellants** in rockets and missiles
- **Explosives** in mining and demolition
- **Fireworks**

- **Safety devices** such as airbags and seat belts

Energetic materials pose a number of risks, including:

- **Explosions**
- **Fires**
- **Toxic fumes**
- **Shrapnel**

It is important to take the following precautions when handling energetic materials:

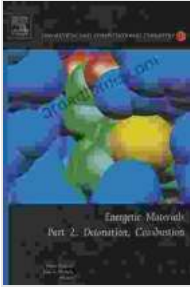
- **Store energetic materials in a cool, dry place away from heat and sparks.**
- **Never transport energetic materials in the same vehicle with people or animals.**
- **Wear appropriate protective clothing and equipment when handling energetic materials.**
- **Follow all safety procedures and instructions.**

Energetic materials are a powerful and versatile class of substances that have a wide range of applications. However, it is important to be aware of the risks associated with energetic materials and to take the necessary precautions when handling them.

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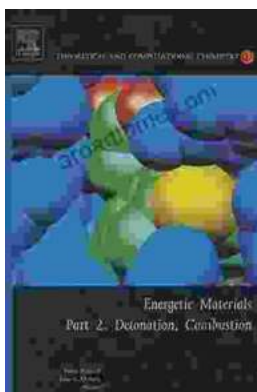


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