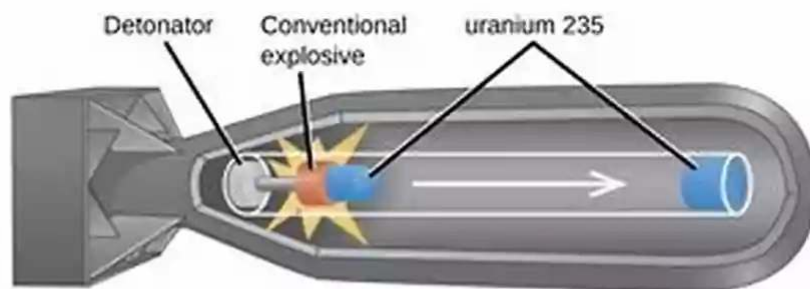
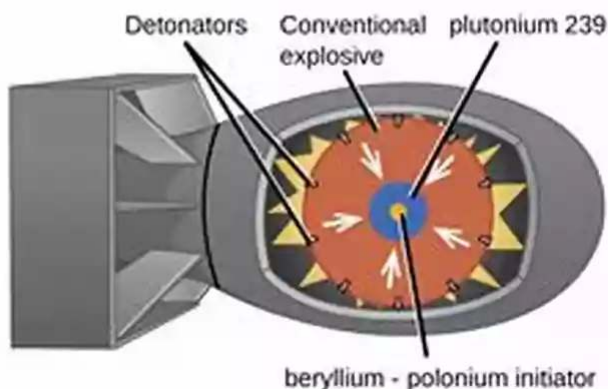


# The Chemistry Of Explosives Rsc Rsc Paperbacks



(a)



(b)



Explosives have fascinated and confounded scientists, historians, and military strategists for centuries. The Chemistry of Explosives, an authoritative book by Jacqueline Akhavan, published by RSC RSC Paperbacks, takes us on a captivating journey to uncover the secrets of these powerful compounds.

## The Power of Explosives

Explosives, with their immense power to release energy in a short period, have revolutionized various aspects of human civilization. From mining and construction to warfare and entertainment, explosives have played a crucial role

in shaping our world. However, their destructive potential demands a thorough understanding of the underlying chemistry to ensure responsible handling and control.



## The Chemistry of Explosives: Rsc (Rsc

**Paperbacks)** by Marwah Roth(3rd Edition, Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English  
File size : 5654 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 202 pages



## Exploring the Chemistry

The Chemistry of Explosives dives deep into the fundamental principles and mechanisms behind the explosive reactions. Jacqueline Akhavan, an accomplished expert in the field, harnesses her extensive knowledge to provide a comprehensive overview, starting from basic concepts and gradually progressing to advanced topics. With clear explanations and illustrative examples, she demystifies the complex chemistry involved.

## Understanding Detonation

One of the most intriguing aspects covered in the book is the process of detonation. Akhavan takes readers on a captivating journey through the chain of events that occur during a detonation, elucidating the vital role played by shock waves and explosive decomposition. Through detailed analyses and diagrams,

she helps us visualize the sequence of reactions that lead to a rapid, self-propagating release of energy.

## **The Role of Energetic Materials**

The Chemistry of Explosives also delves into the fascinating domain of energetic materials. By exploring a wide range of explosive compounds, Akhavan illustrates the diverse ways in which different chemical compositions can result in explosive reactions. This exploration uncovers the connection between molecular structure, properties, and explosive characteristics, shedding light on the intricate relationship between chemistry and explosion.

## **Applications and Safety Measures**

While explosive reactions have been employed in numerous industries, including mining and demolition, safety remains paramount. Akhavan dedicates a significant portion of her book to discussing various safety measures, guidelines, and regulatory frameworks related to the handling, storage, and transportation of explosives. She emphasizes the importance of responsible practices and the potential consequences of mishandling such powerful materials.

## **Explosives in History**

The book also offers an intriguing glimpse into the historical significance of explosives. From their use in ancient Chinese fireworks to the powerful military explosives of World War II, Akhavan explores the impact of explosives on warfare, technological advancements, and societal changes. This historical perspective allows readers to appreciate the profound influence of explosive chemistry on human progress.

The Chemistry of Explosives by Jacqueline Akhavan is an exceptional resource for anyone interested in understanding the captivating world of explosive

reactions. From the underlying chemistry to historical context and safety considerations, Akhavan provides a comprehensive, insightful, and engaging exploration into this fascinating field. So, grab a copy of RSC RSC Paperbacks' The Chemistry of Explosives and embark on a thrilling journey to uncover the secrets of these explosive compounds!



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This concise, easy-to-read book outlines the basic principles needed to understand the chemical mechanisms of explosion. Covering detonation, deflagration, initiation, the latest theories on the production of "hotspots", thermochemistry, thermodynamics and kinetics, the text includes detailed formulations and reactions presented with thermochemical calculations to aid understanding. The history, theory and chemical types of explosives are introduced, along with propellants, pyrotechnics and the most up-to-date information on energetic binders for explosive compositions. Covering all aspects of explosive chemistry from history to manufacturing techniques and formulation, The Chemistry of Explosives is a unique text which introduces difficult subjects in a readable manner. Ideal for A-level students and new graduates with no previous knowledge of explosive materials, it will also be useful to anyone needing succinct information on the subject.



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