Organic Chemistry of Explosives
Jai Prakash Agrawal, Robert Hodgson

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**DESCRIPTION**

*Organic Chemistry of Explosives* is the first text to bring together the essential methods and routes used for the synthesis of organic explosives in a single volume.

Assuming no prior knowledge, the book discusses everything from the simplest mixed acid nitration of toluene, to the complex synthesis of highly energetic caged nitro compounds.

- Reviews laboratory and industrial methods, which can be used to introduce aliphatic C-nitro, aromatic C-nitro, N-nitro, and nitrate ester functionality into organic compounds
- Discusses the advantages and disadvantages of each synthetic method or route, with scope, limitations, substrate compatibility and other important considerations
- Features numerous examples in the form of text, reaction diagrams, and tables

**ABOUT THE AUTHOR**

Jai Prakash Agrawal is the former Director of Materials of the Indian Defence Research and Development Organization. He obtained his PhD in Chemistry from the Gorakhpur University, India, and did postdoctoral work at the University of Saint-Etienne, France, and at the Cavendish Laboratory of the University of Cambridge, UK. In recognition of his achievements Dr. Agrawal was
appointed a Fellow of the Royal Society of Chemistry, London. The focus of his scientific and professional career is on research and development in the field of propellants, explosives and inhibitory materials. He has written a monograph on "Composite Materials" and is recipient of several honours including the prestigious DRDO Technology Award. Together with Robert Hodgson he has authored the book "Organic Chemistry of Explosives", John Wiley & Sons.

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