



# Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition

By John A. Conkling, Chris Mocella

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**Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition** By John A. Conkling, Chris Mocella

Primarily driven by advancing technology and concerns for safety, advancement in the world of pyrotechnics and high-energy materials has exploded in the past 25 years. The promulgation of new government regulations places new and more stringent restrictions on the materials that may be used in energetic mixtures. These regulations now mandate numerous training programs, and initiate other actions, such as OSHA's Process Safety Management standard, intended to eliminate accidents and incidents. Unfortunately, the US lacks an organized, broad-range academic program to cover the science and use of energetic materials and educate the next generation of pyrotechnicians.

Designed as a bridge to allow a smooth and confident transition for personnel coming from a chemistry background into the practical world of explosives, **Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition** emphasizes basic chemical principles alongside practical, hands-on knowledge in the preparation of energetic mixtures. It examines the interactions between and adaptations of pyrotechnics to changing technology in areas such as obscuration science and low-signature flame emission.

Much more than a simple how-to guide, the book discusses chemical and pyrotechnic principles, components of high-energy mixtures, and elements of ignition, propagation, and sensitivity. It offers heat compositions, including ignition mixes, delays, thermites, and propellants and investigates the production of smoke and sound as well as light and color.

Promoting the growth and expansion of pyrotechnics as a science, **Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition** provides practitioners with the ability to apply chemical principles and logic to energetic materials and thereby make the field as productive, useful, and safe as possible.

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### Editorial Review

#### Review

I think that the time has come to modernize the design and production of pyrotechnics and I actually plan to see whether these local companies are interested in learning the chemical principles behind their successful business. I certainly plan to use *Chemistry of Pyrotechnics: Basic Principles and Theory* for any such class. I would highly recommend this book for anyone who is fascinated by pyrotechnic displays. You will learn a great deal by reading it.

?Peter M. Smith, in *Journal of Chemical Education*, April 2012

This is a fascinating book that should be of interest to all those involved in the application of chemistry to the more artistically rewarding aspects of the subject.

?*Chromaographia*, 2012

#### About the Author

Chestertown, Maryland, USA

### Users Review

#### From reader reviews:

##### Matthew McDaniel:

Now a day people that Living in the era exactly where everything reachable by talk with the internet and the resources inside can be true or not require people to be aware of each facts they get. How a lot more to be smart in acquiring any information nowadays? Of course the reply is reading a book. Studying a book can help individuals out of this uncertainty Information specifically this Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition book because this book offers you rich data and knowledge. Of course the info in this book hundred per-cent guarantees there is no doubt in it as you know.

##### Gail Delamora:

Typically the book Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition will bring that you the new experience of reading a new book. The author style to explain the idea is very unique. In case you try to find new book to see, this book very acceptable to you. The book Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition is much recommended to you to read. You can also get the e-book from your official web site, so you can easier to read the book.

##### Peter Delaune:

Playing with family in a park, coming to see the coastal world or hanging out with pals is thing that usually

you could have done when you have spare time, subsequently why you don't try factor that really opposite from that. One particular activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you already been ride on and with addition of information. Even you love Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition, you can enjoy both. It is excellent combination right, you still wish to miss it? What kind of hang type is it? Oh come on its mind hangout people. What? Still don't obtain it, oh come on its known as reading friends.

**Rena Campbell:**

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