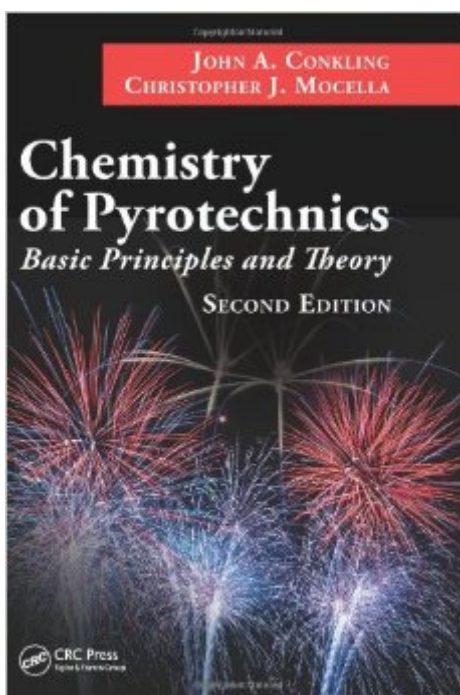


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# Chemistry Of Pyrotechnics: Basic Principles And Theory, Second Edition



## Synopsis

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.

## Book Information

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## Customer Reviews

This is one of those essential books that every professional or licensed hobbyist involved with fireworking should own. This really is a great book that takes you deeply into the chemistry and physics of what goes on with these compositions as they are put into use. Knowing what is in this book will help you tweak your formulae so that they do exactly what you want them to do when you use them. Highly recommended for anyone interested in Pyrotechnics though none of the experiments should be attempted without the proper training and licensing.

It's not a very lengthy book, but it is packed with useful information and handy charts. Any serious pyrotechnician or shell builder should have this in their library. You should have some chemistry background if you expect any of this to make sense. A bargain at twice the price.

Well written, covers the chemistry, how ingredients work with each other, their properties and problems. This book is not a do it yourself manual and I did not purchase it for that use. If you are interested in how pyrotechnics work, this is the book for you.

This book is a concise and interesting study of combustion chemistry from the standpoint of pyrotechnics. The discussions of molecular level combustion reactions is informative and very readable.

Dr. Conkling and Chris Mocella wrote an excellent book on application of chemistry to pyrotechnic materials. Anyone in the industry must own this book!

Very informative

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