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More directly, burn rate determines the rate of

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gas production from a propellant, and thus the thrust from and internal pressure within a rocket motor.

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### Control Of Pyrotechnic Burn Rate One

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More directly, burn rate determines the rate of gas production from a

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mechanism, useful in  
adjusting pyrotechnic

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output, is the control of burn rate. Burn rate determines the rate of energy release, and thus to some extent the flame temperature of a star. More directly, burn rate determines the rate of gas production from a propellant, and thus the thrust

*Control Of Pyrotechnic  
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Control of Pyrotechnic  
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the contrary, the term burn rate will mean linear burn rate. There are at least 15 factors known to affect the burn rate of pyrotechnic compositions. These are listed in Table 1. For each factor listed, the change in burn rate is produced by chemical effects,

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These are a collection of previously published technical papers on a variety of pyrotechnic topics. The articles have been reformatted into a 2-column, 8 1/2x11" format with medium print. Only those articles that continue to be of interest and use to pyrotechnicians have been included.

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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

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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  
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science and use of  
energetic materials and  
educate the next  
generation of  
pyrotechnicians.

Designed as a bridge to  
allow a smooth and  
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personnel coming from  
a chemistry background  
into the practical world  
of explosives,

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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

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Pyrotechnic 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,



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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

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ability to apply chemical principles and logic to energetic materials and thereby make the field as productive, useful, and safe as possible.

This book covers military pyrotechnics characteristics, sensitivity, combustion, performance parameters, ingredients and their behaviour,

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various pyrotechnic compositions and their manufacturing methods, filling, pressing and assembly of ammunition and so forth. Divided into two broader sections, namely military pyrotechnic compositions and military pyrotechnic ammunitions and devices, it provides full spectrum of military

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pyrotechnics and a  
guide for all personnel  
involved with  
management of military  
pyrotechnic  
ammunitions and  
devices in design,  
production, inspection,  
training, and use.

Features: \*Answers  
"know what", "know  
why "and "know how"  
of pyrotechnic  
compositions and

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**pyrotechnic**  
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**devices \* Explains**  
various concepts and  
mechanisms of the  
military pyrotechnics  
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characteristics of  
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compositions and its  
classification  
\*Discusses various  
factors affecting  
performance and some

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differences in military  
pyrotechnics \*

Describes various  
methods of initiation of  
ignition in ammunition

\*Elucidates basic  
requirements of  
pyrotechnic

ammunitions, its  
development and life  
cycle of ammunition

lots \* Provides  
classification, division,  
shelf life, compatibility

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and nomenclature of  
ammunitions and  
devices \*Reviews  
test/proof requirements  
of ammunitions and  
devices, deployment and  
functioning, defect  
classification, sampling  
plan and acceptance  
criteria \*Explores latest  
trends in 'green  
pyrotechnics' for  
environment- friendly  
military pyrotechnics

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This book provides chemists with technical insight on pyrotechnics and explosives. It emphasizes basic chemical principles and practical, hands-on knowledge in the preparation of energetic materials. It examines the interactions between



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and adaptations of  
pyrotechnics to  
changing technology in  
areas such as  
obscuration science and  
low-signature flame  
emission. The updated  
third edition discusses  
chemical and  
pyrotechnic principles,  
components of high-  
energy materials,  
elements of ignition,  
propagation, and

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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.

These are a collection of  
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technical papers on a variety of pyrotechnic topics. The articles have been reformatted into a 2-column, 8 1/2x11" format with medium print. Only those articles that continue to be of interest and use to pyrotechnicians have been included.

This third edition of the classic on the

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thermochemical aspects  
of the combustion of  
propellants and  
explosives is completely  
revised and updated and  
now includes a section  
on green propellants and  
offers an up-to-date  
view of the  
thermochemical aspects  
of combustion and  
corresponding  
applications. Clearly  
structured, the first half

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of the book presents an introduction to pyrodynamics, describing fundamental aspects of the combustion of energetic materials, while the second part highlights applications of energetic materials, such as propellants, explosives and pyrolants, with a focus on the phenomena occurring in rocket

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motors. Finally, an appendix gives a brief overview of the fundamentals of aerodynamics and heat transfer, which is a prerequisite for the study of pyrodynamics. A detailed reference for readers interested in rocketry or explosives technology.

The first comprehensive  
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work on one of the most  
important underground  
mining methods

worldwide,

Geotechnical Design for  
Sublevel Open Stopping

presents topics

according to the

conventional sublevel

stopping process used by

most mining houses, in

which a sublevel stopping

geometry is chosen for a

particular mining

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availability, and work  
force experience.

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design and operation of  
sublevel open stoping,  
including variants such  
as bench stoping



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sublevel spacing due to  
advances in the drilling  
of longer and accurate  
production holes, as  
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boring Devotes a

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chapter to rock mass  
characterization, since  
increases in sublevel  
spacing have meant that  
larger, unsupported  
stope walls must stand  
without collapsing

Describes

methodologies to design  
optimum open spans  
and pillars, rock  
reinforcement of  
development access and  
stope walls, and fill

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masses to support the  
resulting slope voids  
Reviews the sequencing  
of stoping blocks to  
minimize in situ stress  
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research performed on  
the delay characteristics  
of igniter mixes relative  
to proportion sizes,  
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