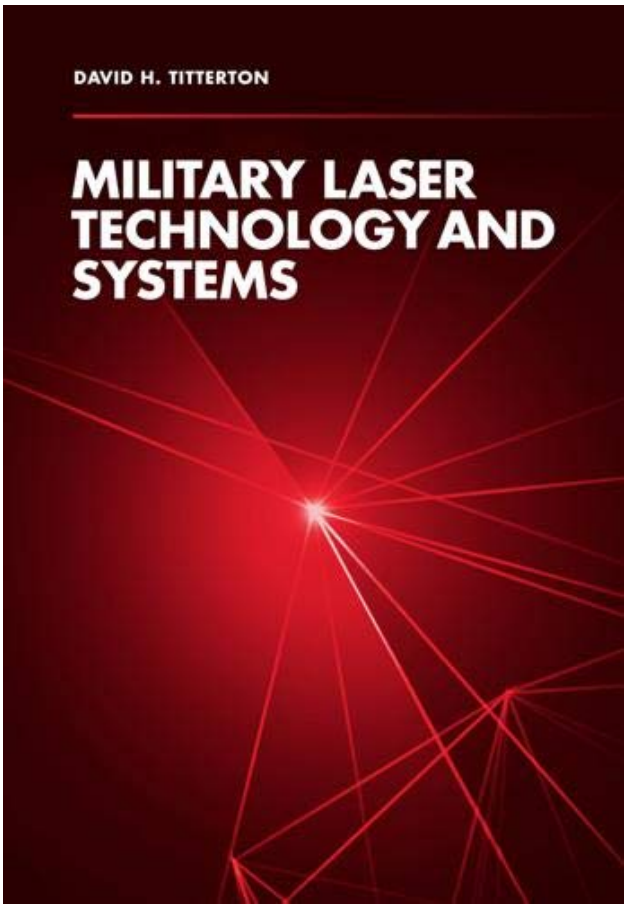


Military Laser Technology and Systems

Read More

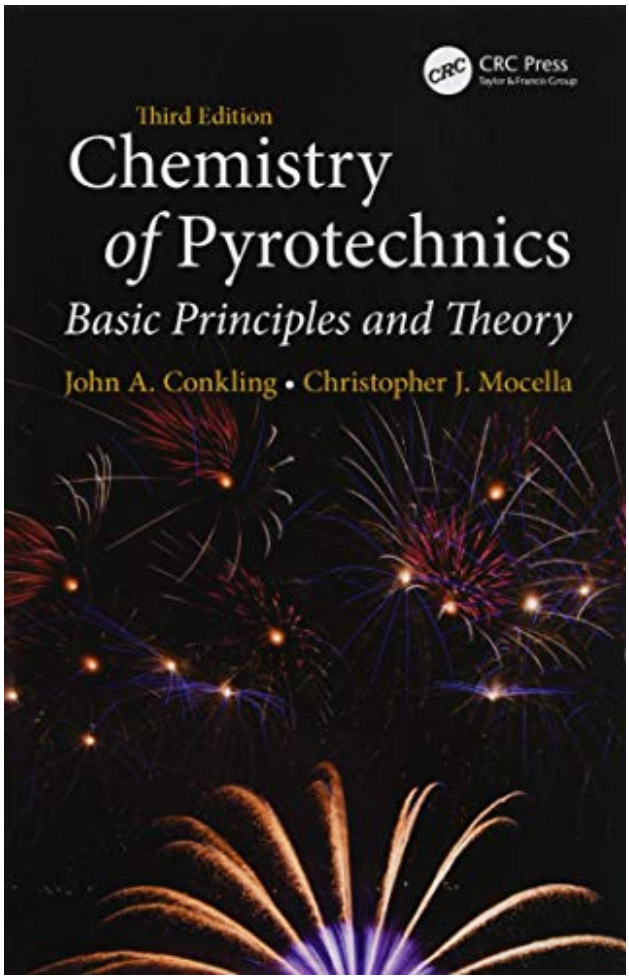
SKU: 9781608077786

Price: $2,919.00

Categories: Applied optics, Laser technology & holography, MILITARY ENGINEERING, OTHER TECHNOLOGIES, OTHER TECHNOLOGIES, TECHNOLOGY, ENGINEERING, AGRICULTURE, VETERINARY SCIENCE, WARFARE & DEFENCE

Product Description

This new resource provides an insight into the physical principles of the device technology that underpins many laser-based military systems in one form or another. From this knowledge a deeper understanding of the fundamental requirements and the potential performance, as well as limitations of such systems may be assessed, given the appropriate operational parameters. Engineers and students are provided with practical advice on how to evaluate laser devices and systems, operate them safely, and train with them.



Chemistry of Pyrotechnics: Basic Principles and Theory, Third Edition

Read More

SKU: 9781138079922

Price: $2,205.00

Categories: BUILDING CONSTRUCTION & MATERIALS, CIVIL ENGINEERING, SURVEYING & BUILDING, CIVIL ENGINEERING, SURVEYING & BUILDING, EXPLOSIVES TECHNOLOGY & PYROTECHNICS, FIRE PROTECTION & SAFETY, INDUSTRIAL CHEMISTRY, INDUSTRIAL CHEMISTRY & MANUFACTURING TECHNOLOGIES, INDUSTRIAL CHEMISTRY & MANUFACTURING TECHNOLOGIES, MATERIALS SCIENCE, MECHANICAL ENGINEERING & MATERIALS, MECHANICAL ENGINEERING & MATERIALS, OTHER TECHNOLOGIES, PARTICLE & HIGH-ENERGY PHYSICS, PHYSICS, PHYSICS, WARFARE & DEFENCE

Product Description

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 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 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.