

# The Chemistry Of Explosives 3rd Edition

Propellants and Explosives The Chemistry of Explosives The Preparatory Manual of Explosives Forensic Investigation of Clandestine Laboratories A Handbook on Modern Explosives The Chemistry of Explosives Treatise on Service Explosives, 1895 Numerical Modeling of Explosives and Propellants, Third Edition Energetic Compounds Explosive Effects and Applications The Preparatory Manual of Explosives Numerical Modeling of Explosives and Propellants American Journal of Science The American Journal of Science Explosives Explosives Encyclopedia of Chemical Technology: Explosives and propellants to flame retardants for textiles Notes on Military Explosives. 3rd Ed The Handling of Dangerous Goods Descriptive Geometry Naminosuke Kubota Jacqueline Akhavan Jared B. Ledgard Donnell R. Christian, Jr. Manuel Eissler Jacqueline Akhavan Great Britain. War Office Charles L. Mader Mohammad Hossein Keshavarz Jonas A. Zukas Jared Ledgard Charles L. Mader Arthur Marshall Rudolf Meyer E. M. Weaver H. Joshua Phillips John Fry Heather

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propellants and explosives explosives and propellants are termed energetic materials for containing considerable chemical energy which can be converted into rapid expansion in contrast to simple burning of a fuel explosives and propellants are self contained and do not need external supply of oxygen via air since their energy content thus inherently creates the risk of accidental triggering of the explosive reaction proper synthesis formulation and handling during production and use are of utmost importance for safety and necessitate specialist knowledge on energetic materials their characteristics handling and applications now in its third edition the classic on the thermochemical aspects of the combustion of propellants and explosives is completely revised and updated and includes green propellants as new topic the combustion processes of typical energetic crystalline and polymeric materials and various types of propellants and pyrolants are presented to provide an informative generalized approach for the understanding of the combustion mechanisms of those materials the first half of the book represents an introductory text on pyrodynamics describing fundamental aspects of the combustion of energetic materials the second half highlights applications of energetic materials as propellants explosives and pyrolants with focus on phenomena occurring in rocket motors in addition the 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

this concise easy to read book outlines the basic principles needed to understand the chemical mechanisms of explosion covering detonation deflagration initiation the latest theories on the production of hotspots thermochemistry thermodynamics and kinetics the text includes detailed formulations and reactions presented with thermochemical calculations to aid understanding the history theory and chemical types of explosives are introduced along with propellants pyrotechnics and the most up to date information on energetic binders for explosive compositions covering all aspects of explosive chemistry from history to manufacturing techniques and formulation the chemistry of explosives is a unique text which introduces difficult subjects in a readable manner ideal for a level students and new graduates with no previous knowledge of explosive materials it will also be useful to anyone needing succinct information on the subject

the preparatory manual of explosives third edition is an invaluable reference manual covering the preparation and use of 166 of the most influential explosive compounds known to man the book is also an excellent and powerful collection of over 175 years of explosives science the preparatory manual of explosives third edition is a laboratory manual that has been broken down into easy to understand chapters starting with basic chemistry and laboratory techniques then leading up to explosives dynamics and finally leading up to the preparation of the explosives themselves in detail the preparatory manual of explosives third edition is an excellent reference book for anyone s book collection and the book will enlighten the reader in the art of explosives chemistry and science

forensic investigation of clandestine laboratories second edition is fully updated to address all aspects of the forensic investigation of clandestine laboratories while the first edition focused on the domestic clandestine manufacture of contraband substances this edition expands the scope to more fully address the clandestine manufacture of explosives that have become a threat that is global in nature in clandestine laboratory operations equipment is often simple household chemical products are utilized and the education of the operators basic in fact most of the time these elements individually are perfectly legal to sell and possess however the combination of all these elements is what becomes the scene of illicit activity and a criminal operation in response to the increase in use of homemade explosive mixtures by terrorists both domestically and internationally the section clandestine manufacture of explosives is greatly enhanced topics are presented in a manner which while detailed will not compromise the tactics techniques or procedures utilized by law enforcement and military personnel in their ability to combat the clandestine manufacture of contraband substances and the battle against domestic and international terrorism key features examines tell tale signs to look for in recognizing a clandestine lab outlines how to safely process the site of a clandestine lab details how to analyze collected evidence in the examination laboratory provides guidelines as to what to derive from the physical evidence offers specific tactics to effectively present the opinions associated with evidence that has been collected during the investigation in a written report military style briefing or to a jury in a legal proceeding forensic investigation of clandestine laboratories second edition guides the reader through the process of recognizing these illegal manufacturing operations then it examines the methods as to how to compile the volume of associated evidence into a package that can be presented in a court of law or to military commanders for decisive action it is an invaluable resource that will prove useful to chemistry lab technicians forensic investigators fire and first responder professionals military personnel police investigative agencies and narcotics units and lawyer trying cases involving clandestine labs

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the chemical mechanisms of explosion covering detonation deflagration initiation the latest theories on the production of hotspots thermochemistry thermodynamics and kinetics the text includes detailed formulations and reactions presented with thermochemical calculations to aid understanding the history theory and chemical types of explosives are introduced along with propellants pyrotechnics and the most up to date information on energetic binders for explosive compositions covering all aspects of explosive chemistry from history to manufacturing techniques and formulation the chemistry of explosives is a unique text which introduces difficult subjects in a readable manner ideal for a level students and new graduates with no previous knowledge of explosive materials it will also be useful to anyone needing succinct information on the subject

providing a complete overview of the rapidly emerging field of modeling for explosives and propellants this updated text imparts a thorough understanding of new computational methods and experimental measuring techniques the cd rom contains fortran and executable computer codes

this book discusses methods for the assessment of energetic compounds through heat of detonation detonation pressure velocity and temperature gurney energy and power the authors focus on the detonation pressure and detonation velocity of non ideal aluminized energetic compounds this 2nd edition includes an updated and improved presentation of simple reliable methods for the design synthesis and development of novel energetic compounds

this is a broad based text on the fundamentals of explosive behavior and the application of explosives in civil engineering industrial processes aerospace applications and military uses

the preparatory manual of explosives fourth edition is a massive upgrade from the third edition and has been completely re written the material has been completely re done with more emphases on detailed preparatory methods safety and hazard info molecular information and data structures and equations and new chapters the fourth edition includes numerous illustrations and data charts and tables and includes improved procedures processes and information written with professional standards but given a new improved bases so that the general student can read and understand the context far better then seen in the third edition as well the fourth edition includes valuable toxicity and physical properties data and exhaustively describes each process in a new format and style not seen in the third edition the fourth edition will become the standard for explosives science and technology the book is a perfect reference for students government agencies government contractors and enthusiasts

major advances both in modeling methods and in the computing power required to make those methods viable have led to major breakthroughs in our ability to model the performance and vulnerability of explosives and propellants in addition the development of proton radiography during the last decade has provided researchers with a major new experimental tool for studying explosive and shock wave physics problems that were once considered intractable such as the generation of water cavities jets and stems by explosives and projectiles have now been solved numerical modeling of explosives and propellants third edition provides a complete overview of this rapidly emerging field covering basic reactive fluid dynamics as well as the latest and most complex methods and findings it also describes and evaluates russian contributions to the experimental explosive physics database which only recently have become available this book comes with downloadable resources that contain fortran and executable computer codes that operate under microsoft windows vista operating system

and the os x operating system for apple computers windows vista and mac compatible movies and powerpoint presentations for each chapter explosive and shock wave databases generated at the los alamos national laboratory and the russian federal nuclear centers charles mader s three pronged approach through text computer programs and animations imparts a thorough understanding of new computational methods and experimental measuring techniques while also providing the tools to put these methods to effective use

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