

The Chemistry Of Explosives 3rd Edition

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The Preparatory Manual of Explosives
The Preparatory Manual of Explosives Fourth Edition
Volume 1
Numerical Modeling of Explosives and Propellants, Third Edition
Forensic Investigation of Clandestine Laboratories
Propellants and Explosives
A Handbook on Modern Explosives
Energetic Compounds
Explosive Effects and Applications
Treatise on Service Explosives, 1895
Explosives, 3rd Rev. and Extended Ed
Chemistry of High-Energy Materials
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Trace Chemical Sensing of Explosives
Notes on Military Explosives. 3rd Ed
The American Journal of Science
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The Handling of Dangerous Goods
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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

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 chapters in volume 1 include 1 chapter 1 introduction to chemistry a quick lesson in general chemistry 2 chapter 2 familiarization with laboratory techniques 3 chapter 3 laboratory apparatus 4 chapter 4 chemistry theory and calculations 5 chapter 5 the dynamics of explosives 6 chapter 6 improvised explosives and operations 7 chapter 7 familiarization with explosive munitions 8 chapter 8 intermediates reagents and solvents used in the preparation of explosives 9 chapter 9 explosives preparation

1 the preparation of metal azides fulminates and nitrides 10 chapter 10 explosives preparation 2 the preparation of organic azides and azo nitros 11 chapter 11 explosives preparation 3 the preparation of aza oxa nitramines 12 chapter 12 explosives preparation 4 the preparation of cyclic nitramines 13 chapter 13 explosives preparation 5 the preparation of nitramines the fourth edition is the standard for explosives science and technology of the most used energetic compounds the book is a perfect reference for students government agencies government contractors and enthusiasts

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

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

this third edition of the classic on the 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 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 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

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

chemistry of high energy materials continues in this new and revised 3rd edition to provide fundamental scientific insights into primary and secondary explosives propellants rocket fuel and pyrotechnics the contents of the previous edition were meticulously updated and recent research developments added to this graduate level textbook applications in military and civil fields are discussed especially environmental issues caused by lead based primary explosives perchlorates in pyrotechnic formulations and modern signal flare compositions are discussed and current research presented further additions include the understanding of the mechanism and continuing development of laser ignition methods techniques for the characterization of detonators and their output as well as principles and effects of underwater explosions new in the 3rd edition revised and updated

content new study problems and questions extended examination of the application of ionic liquids in the field and hydrodynamics intended for advanced students in chemistry materials science and engineering as well as to all those working in defense technology this book makes a nice addition to the shelf of everyone involved with energetic materials as such it is recommended as a very useful reference for both students and experienced readers ernst christian koch on the 2nd edition in propellants explosive pyrotechnics 16 2011 upcoming titles by thomas m klapötke energetic materials encyclopedia january 2018 thomas m klapötke csci cchem frsc was from 1995 until 1997 ramsay professor of chemistry at the university of glasgow in scotland since 1997 he has held the chair of inorganic chemistry at lmu munich

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

this timely book covers the most recent developments in the chemical detection of explosives in a variety of environments beginning with a broad view of the need for and the potential applications of chemical sensing the book considers the issue of how to effectively include chemical sensing into systems designed to find hidden explosives devices offering a firsthand look at the latest technologies direct from those who are actively developing them the book features a look at the history of the field

including the contributions of recent programs a brief explanation of the chemistry of various explosives and differences in the place where they may be detected an introduction to the problems presented by trace element sensing an overview and comparison of the technologies currently being used and developed case studies of field experiences with chemical sensors a look at the emerging threat of non traditional explosives this book is an important reference for explosives engineers systems engineers involved in the development of related devices government agencies and ngos involved in demining efforts military and law enforcement specialists in mines and explosive ordinance disposal eod as well as environmental scientists and chemists involved in explosives research in addition to providing field workers with knowledge that will help them decide where and how to search for explosives using chemical sensors it will provide them with an understanding of the potential and the limitations of chemical sensing in their search for and identification of dangerous devices

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