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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)

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outstanding laboratory and training manual and reference for students, government agencies, government contractors, civil authorities, and enthusiasts.

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Manual of Explosives: Radical, Extreme, Experimental Explosives Chemistry Vol.1 will redefine the world of explosives, and usher in a new era of explosives chemistry for the 21st century and will accommodate for many new educational purposes, and commercial and military operations.

An invaluable reference manual providing quick answers to the preparation of 121 explosives, and dozens of corresponding explosives compositions. The manual is perfect for students, researchers, and truth gatherers. The manual also includes a comprehensive tutorial for laboratory techniques, and procedures including distillation, extraction, and recrystallization. This manual will help the reader better understand the art of explosives, and the chemistry there of.

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Recovering the product through low heat and vacuum; a) Washing liquids; b) Washing solids using non-vacuum techniques; c) Washing solids using vacuum techniques; d) Drying solids; e) Drying liquids to remove water; f) Laboratory safety; g) Laboratory glassware; h) Laboratory equipment; Section 2: Intermediates, Reagents, and Solvents; Section 3: Experimental Explosives Chemistry; Theoretical Preparation 1: 1,3,5-trinitrohexazinane; Azinane; Theoretical Preparation 2: trisodium hexazinane-1,3,5-triide; SOD; Theoretical Preparation 3: 3,3',3''-hexazinane-1,3,5-triyltris(triaza-1,2-dien-2-ium-1-ide); HEXAAZIDE; HTA; Theoretical Preparation 4: diammonium trioxidane-1,3-diide; diammonium trioxide; DATD; Theoretical Preparation 5: 3,3'-trioxidane-1,3-diylbis(triaza-1,2-dien-2-ium-1-ide); TDTD; Theoretical

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Preparation 6:

benzene-1,3,5-triyltris(chlorane)  
nonaoxide; BTCN; Chlorane; Theoretical

Preparation 7:

2,4,6-trinitro-1,3,5,2,4,6-trioxatriazinane;  
TNTOTA; oxatriazinane; Theoretical

Preparation 8: (2,4,6-trinitrobenzene-1,3,5  
-triyl)tris(chlorane) nonaoxide; Chlorane;

Theoretical Preparation 9:

1,3,5-triazido-2,4,6-trinitrobenzene;  
Nitrazide; TATNB; Theoretical

Preparation 10: 1,3,5-trinitrohexasilinane;  
nitrosilane; 2-TNHS; Theoretical

Preparation 11: 1,3,5-trinitro-1,3,5-tris(nitr  
ooxy)hexasilinane-1,3,5-trium; TNNHS;

Si-135; Theoretical Preparation 12:

1,3,5-trinitrohexaphosphinane; TNHP;  
High Explosive Phosphorus; Theoretical

Preparation 13: pentanitro-15-phosphane;  
5-PNP; Theoretical Preparation 14:

trinitroamine oxide; TNAOX;

NITROXIDE; Theoretical Preparation 15:



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pentachloryl-15-phosphane; Theoretical  
Preparation 16: Tetranitrodiborane;  
TNDB; Nitro Boron; Theoretical  
Preparation 17:  
1,2,3,4,5,6-hexanitrocyclohexaborane;  
KNCHB; 6-Nitrocycloborane; Theoretical  
Preparation 18: N'-perchlorylperchloric  
hydrazide; N'PCPH, Perchloryl hydrazine;  
Theoretical Preparation 19:  
tetranitrohydrazine; TNH-X; Theoretical  
Preparation 20: hexaaza-1,2,4,5-tetraene-2  
,5-dium-1,6-diide; Hexazide; HTDD;  
Theoretical Preparation 21:  
hexaazidobenzene; HAAB; 6-Azide;  
Theoretical Preparation 22: 1,2,3,4,5,6-hex  
anitro-114,214,314,414,514,614-hexathiine;  
Nitro hexathiine; Gamma-HNH;  
Theoretical Preparation 23:  
pentakis(dioxidobromanyl)-15-chlorane;  
Chlorane; pentabromate chloride;  
PDDBC; Theoretical Preparation 24:  
hexa-1,3,5-triynes-1,6-diyl dinitrate;

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HTDD; poly acetylene dinitrate;  
Theoretical Preparation 25: 1,2,3,4,5,6-hexanitrohexa-1,3,5-triene-1,6-diyl dinitrate;  
HNHTDD; Hexanitro-Triene; Triene dinitrate; Theoretical Preparation 26: (1Z,3E,5Z)-1,2,3,4,5,6-hexaazidohexa-1,3,5-triene-1,6-diyl dinitrate; EZ-Azido Triene;  
HAHTDN; Theoretical Preparation 27: 1,2,3,4,5,6-hexafluoro-1,2,3,4,5,6-hexaperchlorylhexane-1,6-diyl dinitrate;  
Fluoroperchlorylhexane; HFGPHDD;  
Theoretical Preparation 28:  
3,3':4',3''-ter-1,2-dioxetane-4,4''-diyl dinitrate; Dioxetane; Dioxetane dinitrate; ter-DDD; Theoretical Preparation 29: 2H,3'H,3''H-2,2':3',2''-teraluminum-3,3''-diyl dinitrate; Aluminum-3H-dinitrate; Aluminum-3-3-dinitrate;  
2H'3H'-Aluminum d

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Kurowski Introduction to the Technology of Explosives is a clear and concise survey of the technologies and physical processes involved in explosive phenomena. The book is intended to provide the worker new to the field with sufficient background to understand problems that may arise and to interact intelligently with specialists in the field. The book covers the fundamentals of the chemistry of explosives; the mechanics of burning; sound, shock, and detonation; initiation and initiators; scaling in design and analysis; and off-the-shelf explosive devices. It provides the basic calculational skills needed to solve simple, first-order engineering design problems, and emphasizes the crucial importance of safety considerations. The book contains a broad range of data on explosive materials, and their properties and behavior, along with extensive lists of useful references.

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Example problems with solutions are provided in each technical area, as are descriptions and analysis of a wide variety of explosive devices. The book concludes with a thorough and comprehensive description of regulatory requirements for the classification, transportation, and storage of explosives, and an extensive guide to explosives safety in plant and test facilities. This book will be of interest to explosives technicians and engineers, government regulators, crime and accident scene investigators, and instructors in military, police, and FBI bomb schools.

A Soldiers Handbook, Volume 1: Explosives Operations, is a compilation and collection of explosives data taken from numerous sources including The Preparatory Manual of Explosives, and US Army Field Manuals. The book is designed to aid the US soldier in the

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operations of various explosives systems used by the US military and other nations along with familiarization with explosives operations including demolitions, explosives dynamics, explosives chemistry, and explosives munitions. The book is a complete collection of explosives information and data and will help the reader understand how explosives are used and their effects.

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