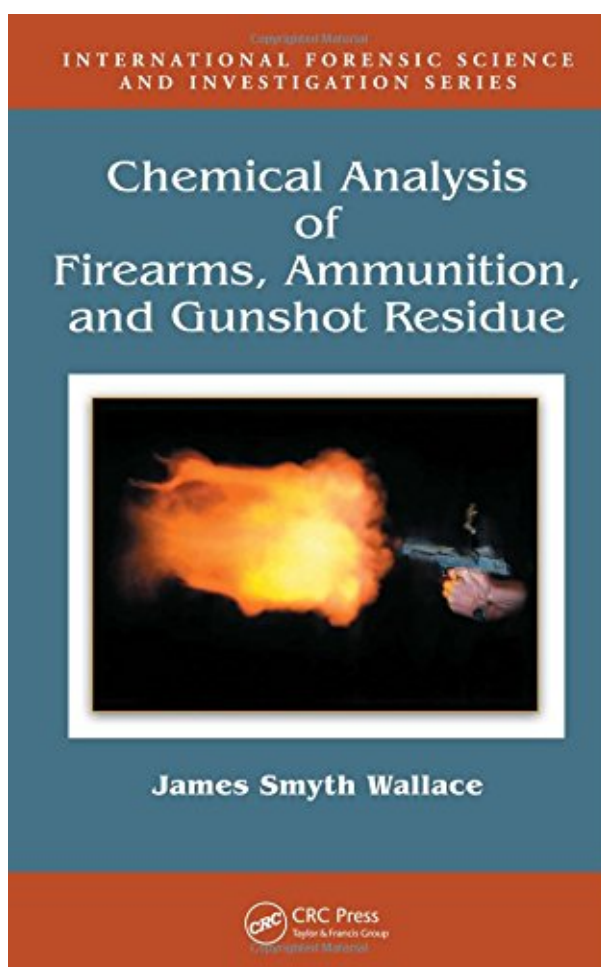


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AMMUNITION, AND GUNSHOT RESIDUE  
(INTERNATIONAL FORENSIC SCIENCE AND  
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# Chemical Analysis of Firearms, Ammunition, and Gunshot Residue



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# **CHEMICAL ANALYSIS OF FIREARMS, AMMUNITION, AND GUNSHOT RESIDUE (INTERNATIONAL FORENSIC SCIENCE AND INVESTIGATION) BY JAMES SMYTH WALLACE PDF**

Firearms and their associated ammunition, spent bullets, and spent cartridge cases provide useful information for identifying suspects, terrorist groups, and the criminal history of a weapon. Unfortunately, despite the numerous detailed books on the physical aspects of firearms, very little has been published on the chemical aspects, and what has been published is sparse and fragmented.

Compiling information from the available literature and supplementing gaps with private communications and personal observations and research, *Chemical Analysis of Firearms, Ammunition, and Gunshot Residue* summarizes the history of firearms and ammunition as it relates to the development of modern weapons. It details chemical aspects of forensic firearms casework with particular emphasis on the detection of gunshot residues (GSR) on a suspect's skin and clothing surfaces.

Drawing on the extensive experience of the Northern Ireland Forensic Science Laboratory (NIFSL) which processed a large firearms caseload during the region's recent violent past, this book records the statistics gathered and the scientific methods developed to meet the demands of law enforcement and courts of law. It describes the analysis and methodology developed to routinely examine samples from terrorist suspects for both firearms and explosives residues.

Providing crucial, hard-to-find data for forensic laboratories and forensic chemists with little or no prior knowledge of firearms, this seminal work presents a wide range of firearms chemistry information and outlines the creation of a statistical database to aid investigations.

Dr. James Smyth Wallace is a retired U.K. forensic scientist and a 25 year veteran of the Northern Ireland Forensic Science Laboratory. He is the author/co-author of 14 scientific papers, as well as a forensic science textbook. He is a member of the Forensic Science Society and retains an active interest in forensic chemistry, particularly in the area of trace evidence detection.

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- Binding: Hardcover
- 320 pages

## Features

- Used Book in Good Condition

## Most helpful customer reviews

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So far the best

By Marco Morin

At last an excellent book on gunshot residues. In Europe Dr. Wallace is very well known in the forensic family interested in GSR (by the way, in the UK they are called FDR, Firearms Discharge Residues) for his researches on the subject, on ammunition and on primers chemical composition. I have met him several times in Belfast, at the NIFS Laboratory, and I was constantly impressed by his work and by his encyclopaedic knowledge of the topic.

His book apparently was written in two different periods and probably the first part was ready in the early nineteen's and, later, the Particle Classification Scheme has been updated: we cannot but agree with him when, at page 272, the author affirms that "No longer can a 'unique' FDR particle be described as such as they occur from nonfirearms sources."

Two personal remarks. I feel the absence of a paragraph describing the formation of GSP and the absence of a general bibliography.

In my opinion it is an highly recommended book for forensic scientists seriously working on Gunshot Residues.

0 of 0 people found the following review helpful.

A Chemist's Review

By Saul C. Cherkofsky

As a synthetic organic chemist with albeit little knowledge of the specialized area of expertise covered by this book, I was nevertheless totally impressed by the quantity and quality of scholarly information presented in a very clear and understandable manner. The presentation by Dr. Wallace was scientifically detailed and thorough, based on his more than 25 years of experience in the forensic laboratory of Northern Ireland during a time when numerous terrorist shootings and bombings took place. In addition, there is included a wonderful description of the historical evolution of firearms and ammunition. Finally, there are also brief, more personal perspectives of the attacks that occurred against the forensic laboratory itself, and some of the other aspects of the workings of the laboratory, including development of the specialized sampling techniques by Dr. Wallace. All in all, the book provides both a very useful addition to the science of firearms and analysis of gunshot residue, along with an interesting view of a very tumultuous period in history.

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