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Forensic Analysis of Fire Debris and Explosives

- Features a practical, hands-on approach suitable for classroom use and professional training by forensic agencies
- Covers complications introduced by environmental factors such as microbial degradation of ignitable liquids and background interferences
- Discusses evidence that does not fall neatly into one category or another, such as road flares or mixtures of ammonium nitrate/fuel oil (ANFO)
- Includes end-of-chapter questions based on real-world data to prepare readers for a forensics laboratory career

This text provides training on the fundamental tools and methodologies used in active forensic laboratories for the complicated analysis of fire debris and explosives evidence. It is intended to serve as a gateway for students and transitioning forensic science or chemistry professionals. The book is divided between the two disciplines of fire debris and explosives, with a final pair of chapters devoted to the interplay between the two disciplines and with other disciplines, such as DNA and fingerprint analysis. It brings together a multi-national group of technical experts, ranging from academic researchers to active practitioners, including members of some of the premier forensic agencies of the world. Readers will gain knowledge of practical methods of analysis and will develop a strong foundation for laboratory work in forensic chemistry. End-of-chapter questions based on relevant topics and real-world data provide a realistic arena for learners to test newly-acquired techniques.

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