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This title brings forensic scientists and chemists up-to-date on the latest instrumental methods for analysing trace evidence, including mass spectrometry, image analysis, DIOS-MS, ELISA characterization, statistical validation, and others. Illustrates comparative analysis of trace evidence by both old and new methods. Explains why some newer methods are superior to older, established methods. Includes chapters on analysis of DNA, ink, dyes, glitter, gun powder traces, condom trace evidence, footwear impressions, toolmark impressions, surveillance videos, glass particles, and dirt. Discusses applications such as mass spectrometry, image analysis, desorption-ionization on silicon mass spectrometry (DIOS-MS), ELISA characterization, and statistical validation.

An updated look at the latest criminal investigative techniques and tools used by law enforcement to solve crimes describes such elements as criminal profiling, lie detector technology, DNA analyses, forensic pathology, anthropology, psychology, and more, as well as their applications in real-life cases. Original. 10,000 first printing.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneratation. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Forensic Science: The Basics, Fourth Edition is fully updated, building on the popularity of the prior editions. The book provides a fundamental background in forensic science, criminal investigation and court testimony. It describes how various forms of evidence are collected, preserved and analyzed scientifically, and then presented in court based on the analysis of the forensic expert. The book addresses knowledge of the natural and physical sciences, including biology and chemistry, while introducing readers to the application of science to the justice system. New topics added to this edition include coverage of the formation and work of the NIST Organization of Scientific Area Committees (OSACs), new sections on forensic palynology (pollen), forensic taphonomy, the opioid crisis, forensic genetics and genealogy, recent COVID-19 fraud schemes perpetrated by cybercriminals, and a wholly new chapter on forensic psychology. Each chapter presents a set of learning objectives, a mini glossary, and acronyms. While chapter topics and coverage flow logically, each chapter can stand on its own, allowing for continuous or selected classroom reading and study. Forensic Science, Fourth Edition is an ideal introductory textbook to present forensic science principles and practices to students, including those with a basic science background without requiring prior forensic science coursework.

In Forensic DNA Profiling Protocols, leading forensic experts from around the world describe in detail their time-proven methods for identity testing through DNA analysis. Their state-of-the-art collection of easily reproducible methods includes all of the major techniques of DNA analysis currently used in forensic identity testing. The book covers PCR-based test systems, the now widely used STR typing systems (complete with details of both manual and automated detection systems), repeat unit mapping (MVR), direct-phase minisequencing, capillary electrophoresis, and direct blotting. Also fully discussed are the recovery of DNA from a wide range of sample types (blood, semen, skeletal remains, and saliva), species testing, sex determination, and mitochondrial DNA testing. Forensic DNA Profiling Protocols captures and makes practical for all laboratories the whole array of new technologies and techniques that have revolutionized forensic science. The readily reproducible methods elucidated here represent the state-of-the-art for those scientists who want to introduce, establish, and perfect DNA identification techniques in their laboratories.

This second edition of Clarke's Analytical Forensic Toxicology offers a fresh perspective on the drugs and poisons that you are most likely to encounter in forensic toxicology, with a focus on collection, extraction and analysis. With additional features incorporated from the fourth edition of Clarke's Analysis of Drugs and Poisons this text is fully updated to reflect the advances in analytical and forensic toxicology. New and extended chapters include: sampling, storage and stability; in-utero exposure to drugs of abuse; drug-facilitated sexual assault; and extraction. Providing unrivalled comprehensive coverage of analytical forensic toxicology, this book is a crucial resource for students of forensic science, toxicology, clinical pharmacology and analytical chemistry. It is an invaluable tool for teachers in these subject areas and a key resource for those working in forensic science laboratories.