

Handbook Of Forensic Drug Analysis

Equal parts true crime, twentieth-century history, and science thriller, *The Poisoner's Handbook* is "a vicious, page-turning story that reads more like Raymond Chandler than Madame Curie"—*The New York Observer* A fascinating Jazz Age tale of chemistry and detection, poison and murder, *The Poisoner's Handbook* is a page-turning account of a forgotten era. In early twentieth-century New York, poisons offered an easy path to the perfect crime. Science had no place in the Tammany Hall-controlled coroner's office, and corruption ran rampant. However, with the appointment of chief medical examiner Charles Norris in 1918, the poison game changed forever. Together with toxicologist Alexander Gettler, the duo set the justice system on fire with their trailblazing scientific detective work, triumphing over seemingly unbeatable odds to become the pioneers of forensic chemistry and the gatekeepers of justice. In 2014, PBS's *AMERICAN EXPERIENCE* released a film based on *The Poisoner's Handbook*. This book focuses on a marvel approach that blends chemistry with forensic science and is used for the examination of controlled substances and clandestine operations. The book will particularly interest forensic chemists, forensic scientists, criminologists, and biochemists.

With contributions from leading international academics across the biological sciences, this handbook takes a critical look at the key contemporary issues and debates in the field. The 31 chapters are divided into four parts: Part I Determination of Substance Misuse Part II PK and PD in Relation to Patterns of Use Part III Detection and Treatment of Drug and Alcohol Use Part IV Controversies and New Approaches This Handbook is an excellent reference text for the growing number of academics, students, scientists and practitioners in the drug and alcohol studies community, and will be a vital resource to the allied professions involved in work-place drug testing, clinical toxicology, and forensic science.

Guidance and procedures for safe and efficient methods from the FBI's Laboratory Division and Operational Technology Division. The FBI Handbook of Crime Scene Forensics is the official procedural guide for law enforcement agencies, attorneys, and tribunals who wish to submit evidence to the FBI's Laboratory and Investigative Technology Divisions. This book outlines the proper methods for investigating crime scenes, examining evidence, packing and shipping evidence to the FBI, and observing safety protocol at crime scenes. Types of evidence discussed include: Bullet jacket alloys Computers Hairs Inks Lubricants Ropes Safe insulations Shoe prints Tire treads Weapons of mass destruction Particular attention is paid to recording the appearance of crime scenes through narratives, photographs, videos, audiotapes, or sketches. A guide for professional forensics experts and an introduction for laymen, the FBI Handbook of Crime Scene Forensics makes fascinating reading for anyone with an interest in investigative police work and the criminal justice system.

A concise compilation of the known interactions of the most commonly prescribed drugs, as well as their interaction with nonprescription compounds. The agents covered include CNS drugs, cardiovascular drugs, antibiotics, and NSAIDs. For each class of drugs the authors review the pharmacology, pharmacodynamics, pharmacokinetics, chemistry, metabolism, epidemiological occurrences, adverse reactions, and significant interactions. Environmental and social pharmacological issues are also addressed in chapters on food and alcohol drug interactions, nicotine and tobacco, and anabolic doping agents. Comprehensive and easy-to-use, *Handbook of Drug Interactions: A Clinical and Forensic Guide* provides physicians with all the information needed to avoid prescribing drugs with undesirable interactions, and toxicologists with all the data necessary to interpret possible interactions between drugs found simultaneously in patient samples. Forensic professionals, often working through heavy caseloads, require quick and easy access to reliable sources of information to help interpret toxicology results. While several in-depth resources are available, they are often large, cumbersome, and contain more information than is needed. The *Handbook of Forensic Toxicology for Medical Examiners* is a concise handbook referencing the most common toxic substances and their levels of toxicity, making it an ideal text for quick confirmation in the field or in the lab. The book begins by explaining the proper selection and submission of specimens for toxicological analysis. It describes the various types of specimens and identifies the cases for which these specimens would be most useful, providing instruction on proper collection. The author then explains the methodology involved in performing the specific tests.

Nearly 300 Toxic Substances Discussed The main section of the text consists of an alphabetical listing of nearly 300 toxic substances, including drugs of abuse, poisons, prescription drugs, and over-the-counter medications. For each entry, the book provides the common brand names; classification; half life; volume of distribution; usual dosage; tables of toxicity in various samples, including blood, urine, and tissues; and other important information based on the extensive experience of the author. The text is heavily referenced with materials that are useful for preparation of courtroom testimony, and it contains supplemental appendices with information on acetylcholinesterase inhibitors, drugs that prolong the QT interval, pharmacogenetics, normal laboratory values, and conversion charts.

Convenient Format The busy forensic professional needs a concise handbook that provides critical information quickly without the need to wade through extraneous and inconsequential material. This volume offers an easy-to-use format that allows quick access to the most pertinent information, saving time and increasing accuracy.

Clarke's Analysis of Drugs and Poisons is the definitive source of analytical data for drugs and poisons. Written by over 40 international experts, the resource also boasts an editorial advisory board of over 45 world renowned scientists. This reference work has been completely revised and updated for the new edition, and comprises two volumes. The book is essential for all forensic and clinical

toxicologists, pathologists, hospital pharmacists, pharmaceutical analysts, clinical pharmacologists, clinical and forensic laboratories, and poison information centres.

Covers preliminary test and chromatographic methods in forensic drug testing. Reviews identification methods such as molecular spectrophotometry, nuclear magnetic resonance, and mass spectrometry. Discusses the fundamental relationship between instrumentation and drug analysis. Evaluates the characteristics and pretreatment approaches for common sample categories. Presents in-depth test result interpretation on issues commonly encountered in workplace drug urinalysis. Analyzes and compares performance characteristics of immunoassays commonly used for workplace drug urinalysis.

Extracted from the Drug Abuse Handbook, 2nd edition, to give you just the information you need at an affordable price. Forensic Issues in Alcohol Testing offers concise and focused information specific to the interests of forensic scientists and clinical and forensic toxicologists. It analyzes the acute effects of alcohol intoxication and the methods by which investigators can measure alcohol concentration in blood, urine, and breath. It considers extenuating circumstances affecting acute impairment by detailing the disposition and fate of alcohol in the body as well as the factors influencing absorption, distribution, and elimination. Specific chapters address difficulties in measuring and interpreting post-mortem alcohol concentrations due to poor quality of specimen, sampling site differences, and post-mortem diffusion or synthesis. Recent advances in biochemical testing make it possible to quantitate chronic alcohol ingestion, and the book analyzes the efficacy of these tests as evaluators of dependence or potential for dependence.

Adapting modern advances in analytical techniques to daily laboratory practices challenges many toxicologists, clinical laboratories, and pharmaceutical scientists. The Handbook of Analytical Therapeutic Drug Monitoring and Toxicology helps you keep abreast of the innovative changes that can make your laboratory - and the studies undertaken in it - a success. This volume simplifies your search for appropriate techniques, describes recent contributions from leading investigators, and provides valuable evaluations and advice. The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. With chapters written by leading researchers in the field, the book provides in-depth, up-to-date methods and results of forensic drug analyses. This Handbook discusses various forms of the drug as well as the origin and nature of samples. It explains how to perform various tests, the use of best practices, and the analysis of results. Numerous forensic and chemical analytic techniques are covered including immunoassay, gas chromatography, and mass spectrometry. Topics range from the use of immunoassay technologies for drugs-of-abuse testing, to methods of forensic analysis for cannabis, hallucinogens, cocaine, opioids, and amphetamine. The book also looks at synthetic methods and law enforcement concerns regarding the manufacture of illicit drugs, with an emphasis on clandestine methamphetamine production. This Handbook should serve as a widely used reference for forensic scientists, toxicologists, pharmacologists, drug companies, and professionals working in toxicology testing labs, libraries, and poison control centers. It may also be used by chemists, physicians and those in legal and regulatory professions, and students of graduate courses in forensic science. Contributed to by leading scientists from around the world The only analysis book dedicated to illicit drugs of abuse Comprehensive coverage of sampling methods and various forms of analysis

Designed for upper-level undergraduate and graduate-level courses, Forensic Toxicology: Mechanisms and Pathology introduces toxicology concepts from a forensic perspective. The

book provides an understanding of the mechanistic basis of the action of drugs and toxins, addressing their physiologic and pathologic consequences on the affected organ systems. *Handbook of Forensic Drug Analysis* Elsevier

Critical Issues in Alcohol and Drugs of Abuse Testing, Second Edition, addresses the general principles and technological advances for measuring drugs and alcohol, along with the pitfalls of drugs of abuse testing. Many designer drugs, for example, are not routinely tested in drugs of abuse panels and may go undetected in a drug test. This updated edition is a must-have for clinical pathologists, toxicologists, clinicians, and medical review officers and regulators, bridging the gap between technical and clinical information. Topics of note include the monitoring of pain management drugs, bath salts, spices (synthetic marijuana), designer drugs and date rape drugs, and more. Serves as a ready resource of information for alcohol and drug testing. Ideal resource for making decisions related to the monitoring and interpretation of results. Includes concise content for clinical laboratory scientists, toxicologists and clinicians. *Handbook of Forensic Pathology, Second Edition* is an up-to-date, concise manual illustrating all core aspects of modern forensic pathology. This edition retains the outline format of the original, which allows for quick access and rapid assimilation. Written in no-nonsense, easily understandable language, this precise and thorough yet compact resource contains extensively detailed entries from two of the nation's foremost authorities on gunshot wounds and forensic pathology. With numerous instructional charts and diagrams and color photographs, it organizes a wealth of instructional and immediately applicable information. Features of the second edition include a chapter on nursing home death, added information on gunshot residue, and research on tasers, pepper spray, and excited delirium syndrome. Introducing medicolegal casework and documentation, this book explains protocols for the collection and recovery of evidence and DNA analysis and lists factors used to determine time of death and identity of the deceased. It identifies the natural causes of death in children and adults before devoting the remaining chapters to the myriad of non-natural causes including homicide, suicide, accidental, and undetermined. With meticulous detail and instant access to extensive information, this handbook is an indispensable tool for forensic pathologists, law enforcement, and legal personnel, as well as pathologists in training.

Following the well-received first edition, the *Drug Abuse Handbook, Second Edition* is a thorough compendium of the knowledge of the pharmacological, medical, and legal aspects of drugs. The book examines criminalistics, pathology, pharmacokinetics, neurochemistry, treatment, as well as drugs and drug testing in the workplace and in sports, and the ethical, legal, and practical issues involved. Dr. Karch gathers contributions from 80 leading experts in their respective fields to update and revise this second edition with more than 40 percent new material. New topics include genetic testing in drug death investigation, the neurochemistry of nicotine and designer amphetamines, genetic doping in sports, and the implications of the Daubert ruling on the admissibility of scientific evidence in federal court. Packed with the latest information in an easily accessible format, the book includes tables of all Scheduled Drugs, methods of Drug Quantitative Analysis, and a glossary of forensic toxicology terms. Vivid pictures and diagrams illustrate the pathological effects of drugs and the chemical make-up and breakdown of abused drugs. It includes more than 6000 references to the best sources in medicine, pharmacology, and the law. This book addresses specific problems in drug testing, drug-related medical emergencies, and the physical, neurochemical, and sociological phenomenon of addiction. With unparalleled detail and the highest level of authoritative information, *The Drug Abuse Handbook, Second Edition* is the definitive resource for drug related issues.

The second edition of *Forensic Toxicology: Principles and Concepts* takes the reader back to the origins of forensic toxicology providing an overview of the largely unchanging principles of the discipline. The text focuses on the major tenets in forensic toxicology, including an

introduction to the discipline, principles of forensic toxicology including pharmacokinetics, pharmacodynamics, drug interactions and toxicogenomics, fundamentals of forensic toxicology analysis, types of interpretations based on analytical forensic toxicology results, and reporting from the laboratory to the courtroom. Also included in the second edition is a Unit focused on the forensic toxicology of individual drugs of abuse. Includes significant emphasis on the fundamental principles and concepts of forensic toxicology Provides students with an introduction to the core tenets of the discipline, focusing on the concepts, strategies, and methodologies utilized by professionals in the field Coauthored by a forensic toxicologist with over 40 years of experience as a professor who has taught graduate courses in forensic and analytical toxicology and who has served as a consultant and expert witness in civil and criminal cases

Forensic Science

Hair in Toxicology: An Important Biomonitor is the first book of its kind devoted exclusively to in-depth analysis of the hair shaft as an important tool for a diverse range of scientific investigations. This authoritative book combines contributions from experts in academic, governmental and industrial environments, to provide a unique, comprehensive look at: - Why hair can serve as an invaluable bio-resource in toxicology, with up-to-date reviews on hair growth, hair fibre formation and hair pigmentation - Information (including regulatory details) on the exposure of hair (and by extension the body) to drug and non-drug chemicals and pollutants - Toxicological issues relevant to the use of hair products (including colourants, shampoos and depilatories) - The ability of hair to capture information on personal identity, chemical exposure, and environmental interactions - How hair can provide an understanding of human life from archaeological and historical perspectives - Future direction in the use of hair in toxicology **Hair in Toxicology: An Important Biomonitor** is ideal as a reference and guide to investigations in the biomedical, biochemical and pharmaceutical sciences at the graduate and post graduate level.

Hair Analysis in Clinical and Forensic Toxicology is an essential reference for toxicologists working with, and researching, hair analysis. The text presents a review of the most up-to-date analytical methods in toxicological hair analysis, along with state-of-the-art developments in the areas of hair physiology, sampling, and pre-treatments, as well as discussions of fundamental issues, applications, and results interpretation. Topics addressed include the diagnosis of chronic excessive alcohol drinking by means of ethyl glucuronide (EtG) and fatty acid ethyl esters (FAEE), the early detection of new psychoactive substances, including designer drugs, the development of novel approaches to screening tests based on mass spectrometry, and the detection of prenatal exposure to psychoactive substances from the analysis of newborn hair. Unites an international team of leading experts to provide an update on the cutting-edge advances in the toxicological analysis of hair Demonstrates toxicological techniques relating to a variety of scenarios and exposure types Ideal resource for the further study of the psychoactive substances, drug-facilitated crimes, ecotoxicology, analytical toxicology, occupational toxicology, toxicity testing, and forensic toxicology Includes detailed instructions for the collection, preparation, and handling of hair, and how to best interpret results

Forensic science has become increasingly important within contemporary criminal justice, from criminal investigation through to courtroom deliberations, and an increasing number of agencies and individuals are having to engage with its contribution to contemporary justice. This Handbook aims to provide an authoritative map of the landscape of forensic science within the criminal justice system of the UK. It sets out the essential features of the subject, covering the disciplinary, technological, organizational and legislative resources that are brought together to make up contemporary forensic science practice. It is the first full-length publication which reviews forensic science in a wider political, economic, social, technological and legal context, identifying emerging themes on the current status and potential future of

forensic science as part of the criminal justice system. With contributions from many of the leading authorities in the field it will be essential reading for both students and practitioners. In *Handbook of Drug Monitoring Methods: Therapeutics and Drug Abuse*, authors discuss the different analytical techniques used in today's practice of therapeutic drug monitoring and drugs of abuse as well as alcohol testing with relevant theory, mechanism, and in-depth scientific discussion on each topic. This volume is the perfect handbook and quick reference for any clinical laboratory, allowing clinicians to find the potential source of a false-positive or a false-negative result in the daily operation of a toxicology laboratory. At the same time, this book can also be used as a reference for medical technologists, supervisors, laboratory directors, clinical chemists, toxicologists, and pathologists to find in-depth cause of a potential interference and what tests can be ordered to circumvent such problem. The volume's first half focuses on various issues of therapeutic drug monitoring. Additional chapters cover analysis of heavy metals, alcohol testing, and issues of drugs of abuse testing. These chapters are written by experts in their relative sub-specialties and also by the editor. Comprehensive and timely, *Handbook of Drug Monitoring Methods: Therapeutics and Drug Abuse* is the ideal text for clinicians and researchers monitoring alcohol and drug testing and other important tasks of toxicological laboratory services.

Handbook of Analytical Techniques for Forensic Samples: Current and Emerging Developments discusses in detail the current trends and latest analytical techniques and methods commonly employed in forensic analysis in order to ensure the proper facilitation of justice. This book is useful for readers who wish to stay updated on the latest trends in the forensic analysis of samples encountered at crime scenes. Technological advancements, such as biosensors, nanotechnology, and taggant technology have upped the level of analysis in forensic science. These emergent technologies, incorporated with existing analytical techniques, are leading to more precise, accurate, and specific examination of forensic samples. Lab-on-a-chip technology has also eased several kinds of on-site analyses done by investigating teams at different types of crime scenes. This book covers the evolution of forensic sample analysis as well as these emerging trends and new technologies. Includes an entire section of experimental exercises for self-teaching and key concept review Covers laboratory protocols used in forensic science laboratories for the analysis of various samples through different analytical techniques Condenses the many aspects of forensic analytical chemistry into a single resource with easy-to-understand language for everyone from students to practitioners

Hallucinogens: A Forensic Drug Handbook is a comprehensive reference for everyone involved in the identification, investigation, and forensic analysis of hallucinogenic drugs. The text begins with a review of the history of these drugs and their abuse, and then takes an in-depth look at the many different types of hallucinogens, their chemical make-up, how they affect users, how they are manufactured and distributed, and how they can be detected and analyzed. *Hallucinogens* covers the most commonly abused drugs such as LSD, MDMA ("Ecstasy"), and PCP ("Angel Dust"), as well as many lesser-known chemical substances that cause similar effects. Chapters have been contributed by leading analysts and investigators around the world, and are highlighted with numerous illustrations. This unique handbook will serve is a cross-disciplinary source of information for forensic toxicologists, law enforcement officers, and others involved in the fight against drugs. * Brings together comprehensive information on hallucinogenic drugs in one convenient source * Covers everything from abuse of these drugs to pharmacology, effects, forms, manufacturing methods, distribution, and forensic analysis * Contains numerous illustrations, chemical structures, and analytic spectra for each drug * Includes contributions from many of the world's leading investigators and analysts

Forensic Medicine encompasses all areas in which medicine and law interact. This book

covers diverse aspects of forensic medicine including forensic pathology, traumatology and violent death, sudden and unexpected death, clinical forensic medicine, toxicology, traffic medicine, identification, haemogenetics and medical law. A knowledge of all these subdisciplines is necessary in order to solve routine as well as more unusual cases. Taking a comprehensive approach the book moves beyond a focus on forensic pathology to include clinical forensic medicine and forensic toxicology. All aspects of forensic medicine are covered to meet the specialist needs of daily casework. Aspects of routine analysis and quality control are addressed in each chapter. The book provides coverage of the latest developments in forensic molecular biology, forensic toxicology, molecular pathology and immunohistochemistry. A must-have reference for every specialist in the field this book is set to become the bench-mark for the international forensic medical community.

The Second Edition of Handbook of Workplace Drug Testing builds on the knowledge included in the first edition and offers considerable updates and enhancements. It remains a valuable resource for understanding the complexity of the science, law, and interpretation of workplace drug testing. The information that has been compiled in the second edition was obtained through extensive laboratory study and literature surveys. As leaders in their fields, the authors provide a historical perspective of workplace drug testing, analytical procedures and theory, drug class overviews and stability of drugs, adulteration and specimen validity testing, alternative matrices, quality assurance and quality control, result interpretation for medical review officers, and laboratory accreditation. This book is a "must have" for all workplace drug testing laboratories and practitioners in forensic toxicology, clinical toxicology, and clinical chemistry. A complete subject index is included for easy referencing of topics.

The authors wrote this book with the intention of bridging the gap between instrumental and analytical texts. The goal was to provide both a broad understanding of forensic and clinical principles for new analysts and a guide/reference for experienced practitioners. The text is organized into four sections: 1) nature of drug abuse, sample characteristics and sample pretreatment, 2) preliminary tests and chromatographic methods, 3) identification methods, and 4) developing technologies and analytical issues. The text is also current with new methodologies and contains numerous references within two years of its publication date. A comprehensive index and appendices are included as well.

This unique handbook educates readers in how drugs are used as weapons in committing sexual assaults. It is designed for everyone involved in the investigation of these crimes including forensic scientists, law enforcement officers, lawyers, toxicologists, and medical professionals. Drug-Facilitated Sexual Assault looks at the history of these crimes over the years and includes an in-depth discussion of the drugs and drug classes in use today. It describes the effects of these drugs on the victims, the type of person who uses drugs to sexually assault an individual, and obstacles to investigating the suspect. The authors show how to properly collect and analyze evidence, overcome some of the unique difficulties encountered in these types of investigations, and work with other professionals to prosecute these cases successfully. * Ideal for everyone involved in the investigation of these crimes, including forensic scientists, police officers, lawyers, toxicologists and medical professionals A presentation of screening techniques, modern technologies, and high-capacity instrumentation for increased productivity in the development and discovery of new drugs, chemical compounds, and targeted delivery of pharmaceuticals. It contains practical applications and examples of strategies in cell-based and cell-free screens as well as homogeneous, fluorescence, chemiluminescence, and radioactive-based technologies. The relatively new technique of solid phase microextraction (SPME) is an important tool to prepare samples both in the lab and on-site. SPME is a "green" technology because it eliminates organic solvents from analytical laboratory and can be used in environmental, food and fragrance, and forensic and drug analysis. This handbook offers a thorough background of

the theory and practical implementation of SPME. SPME protocols are presented outlining each stage of the method and providing useful tips and potential pitfalls. In addition, devices and fiber coatings, automated SPME systems, SPME method development, and In Vivo applications are discussed. This handbook is essential for its discussion of the latest SPME developments as well as its in depth information on the history, theory, and practical application of the method. Practical application of Solid Phase Microextraction methods including detailed steps Provides history of extraction methods to better understand the process Suitable for all levels, from beginning student to experienced practitioner

A comprehensive and easy-to-read introduction to the work of the modern forensic laboratory. The authors explain in simple language the capabilities and limitations of modern forensic laboratory procedures, techniques, analyses, and interpretations. Here, the interested reader will find an understandable and fascinating introduction to the complex worlds of forensic serology DNA, chemistry, crime reconstruction, digital evidence, explosives, arson, fingerprints, firearms, tool marks, odontology, and pathology. Additional chapters address the problems of assuring quality and seeking trace evidence in the forensic laboratory. Unique analysis of drugs and poisons to facilitate testing in all laboratories even by inexperienced chemists Includes source of chemicals needed for the experiments Texts are composed by 67 experts in analyzing the respective compounds Clear and uniform structure of chapters for ease of reading The text is illustrated by many diagrams and tables

Drug Testing in Hair is the first book on this timely and controversial topic. The book's purpose is to validate hair testing as an accepted form of evidence for use in courts and elsewhere, such as the military and the workplace. This volume presents the most recent experiments and clinical applications to provide missing information and insight into the unanswered questions of hair testing. Active researchers working in hair testing have contributed chapters to this book. New data, never before published, are incorporated into the text, so the reader receives cutting-edge information from experts in the field. This is must-have information on everything you need to know about drug testing in hair.

Covering a range of fundamental topics essential to modern forensic investigation, the fourth edition of the landmark text *Forensic Science: An Introduction to Scientific and Investigative Techniques* presents contributions from experts in the field who discuss case studies from their own personal files. This edition has been thoroughly updated to r

AUTHORITATIVE INFORMATION FROM THE SOURCE YOU TRUST The third edition of Karch's *Pathology of Drug Abuse* continues to provide a comprehensive yet accessible guide to the pathology, toxicology, and pharmacology of commonly abused drugs. As in previous editions, the focus remains on the investigation of drug-related deaths and on practical app Forensic professionals, particularly medical examiners—often working through heavy caseloads—require quick and easy access to reliable sources of information to help interpret toxicology results. While several in-depth resources are available, they are often large, cumbersome, and contain more information than is often needed. The *Handbook of Forensic Toxicology for Medical Examiners* is a concise handbook referencing the most common toxic substances and their reported non-toxic, toxic, and lethal concentrations, making it an ideal text for quick reference in the lab or autopsy room. Features of the Second Edition: Explains the principles of postmortem toxicology and the factors which must be considered Provides tables of toxicologic data for over 200 commonly encountered substances, including drugs of abuse, poisons, prescription drugs, and over-the-counter medications Includes discussion and description of the novel psychoactive drugs—including synthetic opioids, cannabinoids, stimulants and hallucinogens Supplemental appendices provide additional information regarding specimen types and selection, testing methodologies, normal laboratory values, and conversion charts The busy forensic professional needs a concise handbook that provides critical information quickly and accurately. This heavily referenced text offers an easy-to-use

format allowing for rapid access for both routine daily use and preparation for courtroom testimony.

A concise, robust introduction to the various topics covered by the discipline of forensic chemistry The Forensic Chemistry Handbook focuses on topics in each of the major chemistry-related areas of forensic science. With chapter authors that span the forensic chemistry field, this book exposes readers to the state of the art on subjects such as serology (including blood, semen, and saliva), DNA/molecular biology, explosives and ballistics, toxicology, pharmacology, instrumental analysis, arson investigation, and various other types of chemical residue analysis. In addition, the Forensic Chemistry Handbook: Covers forensic chemistry in a clear, concise, and authoritative way Brings together in one volume the key topics in forensics where chemistry plays an important role, such as blood analysis, drug analysis, urine analysis, and DNA analysis Explains how to use analytical instruments to analyze crime scene evidence Contains numerous charts, illustrations, graphs, and tables to give quick access to pertinent information Media focus on high-profile trials like those of Scott Peterson or Kobe Bryant have peaked a growing interest in the fascinating subject of forensic chemistry. For those readers who want to understand the mechanisms of reactions used in laboratories to piece together crime scenes—and to fully grasp the chemistry behind it—this book is a must-have.

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