

1 4 Encyclopedia Of Forensic And Legal Medicine

Prestigious and authoritative, this fully updated fourteenth edition of Simpson's Forensic Medicine remains a classic; one of the world's leading introductory texts in the field of forensic medicine. It presents all that the generalist or student needs to know about the interface between medicine and the law.

The fourth edition of Knight's Forensic Pathology continues to be the definitive international resource for those in training and in practice, covering all aspects of the medico-legal autopsy, including the cause and time of death, interpretation of wounds and every other facet of the investigation of a fatality. The contents are intended to lead the pathologist - and in some countries, the non-pathologist - through the procedures needed in the examination of a body found under obscure, suspicious or even criminal circumstances. Although police procedures and the habits of pathologists may vary from country to country, the philosophy and techniques presented in this book offer a guide to good practices that can be modified according to local circumstances. In this new edition the text has been thoroughly updated and is complemented by the addition of over 200 new colour illustrations. It maintains the praised tradition of clarity and readability established since Prof. Bernard Knight's first edition was published in 1991, with an emphasis on the practical application of knowledge and research findings and the avoidance of over-interpretation.

Reflecting new discoveries in fingerprint science, Lee and Gaensslen's Advances in Fingerprint Technology, Third Edition has been completely updated with new material and nearly double the references contained in the previous edition. The book begins with a detailed review of current, widely used development techniques, as well as some older, histo

A collection of cutting-edge reviews of many of the key recent medical and legal advances in forensic science. These critical surveys concentrate on common pathological entities likely to be encountered in daily forensic routine, as well as on specific pathological conditions rarely seen in the autopsy room. Complementing rather than replacing the classic textbooks in forensic pathology, the authors explore new avenues for analyzing the pathology of burned bodies, traumatic brain injury, death by drug abuse, sudden cardiac death, sudden infant death and neonaticide, and fatalities resulting from kicking and trampling. Other areas of interest include accidental autoerotic deaths, hypothermia fatalities, injuries from resuscitation procedures, the interpretation of alcohol levels in different specimens, and the potential forensic differential diagnoses and interpretation of iliopsoas muscle hemorrhage in the light of autopsy.

Encyclopedia of Forensic and Legal Medicine: Ro-Z, index

From Death Scene to Autopsy Suite

New Threats and Countermeasures in Digital Crime and Cyber Terrorism

Wiley Encyclopedia of Forensic Science

Forensic Soil Science and Geology

A common symptom of psychiatric and medical disorders, agitation often appears in a variety of medical environments. This practical guide explores the origins of the condition and the differing approaches and treatments available. The biology of agitation is discussed, followed by specific chapters on substance abuse, medical causes, personality disorders, and treatment in pediatrics and the elderly. Treatment options including psychiatric work-ups, medical work-ups, psychopharmacology, de-escalation, and calming techniques are provided. The complexities of legal issues, patients' rights, and prehospital settings are also addressed, providing physicians, nurses, and mental health workers with a comprehensive resource in providing safe, focused, and effective treatment.

Assessing Weight-of-Evidence for DNA Profiles is an excellent introductory text to the use of statistical analysis for assessing DNA evidence. It offers practical guidance to forensic scientists with little dependence on mathematical ability as the book includes background information on statistics - including likelihood ratios - population genetics, and courtroom issues. The author, who is highly experienced in this field, has illustrated the book throughout with his own experiences as well as providing a theoretical underpinning to the subject. It is an ideal choice for forensic scientists and lawyers, as well as statisticians and population geneticists with an interest in forensic science and DNA.

Encyclopedia of Forensic Sciences is a comprehensive reference source of current knowledge made available in the field of forensic science. Covers the core theories, methods and techniques employed by forensic scientists -- and their application in forensic analysis.

This book discusses new applications of technologies that have been or could be successfully employed to estimate the age of fingermarks. Determining the specific time a fingermark is deposited could become a powerful new development in forensic science and a useful application to law enforcement. This book aims to shed some light on this important and still controversial

area of scientific research. The expert chapters review recent discoveries and current developments with a practical bent, focusing on prospective uses in real-world crime scenes. They take a multidisciplinary approach, featuring contributors with diverse specialties including Chemistry, Imaging Technologies, Forensic Science, Biology and Microbiology. The balanced presentation incorporates critiques on fingerprint aging studies, explores the reliability of fingerprints as evidence, and discusses how the estimation of age can improve robustness of crime evidence. Each chapter describes a unique aspect of fingerprint aging observed from a different analytical perspective: 2D imaging; 3D imaging; chemical analysis; chemical imaging; microbiome analysis; electrochemical analysis; and DNA analysis, as well as the role and application of statistics. Illustrations and graphs aid the reader in understanding the concepts being explained. Not just a compilation of techniques and methods, this book's emphasis on practical applications and its easy-to-read style will appeal to a broad audience of scientists and criminal justice professionals alike. It will be of great interest to law enforcement, academia, and the criminal justice community; including forensic scientists, investigators, lawyers, students, and researchers. It aims to help facilitate debates in the broader community about the feasibility, convenience, and relevance of estimating the age of evidence.

Recommended Reference Books for Small and Medium-sized Libraries and Media Centers

Fundamentals and Applications

The Science of Crime Scenes

Handbook of Missing Persons

Technologies for Fingerprint Age Estimations: A Step Forward

Every 3rd issue is a quarterly cumulation.

Crime Reconstruction, Second Edition is an updated guide to the interpretation of physical evidence, written for the advanced student of forensic science, the practicing forensic generalist and those with multiple forensic specialties. It is designed to assist reconstructionists with understanding their role in the justice system; the development and refinement of case theory' and the limits of physical evidence interpretation. Chisum and Turvey begin with chapters on the history and ethics of crime reconstruction and then shift to the more applied subjects of reconstruction methodology and practice standards. The volume concludes with chapters on courtroom conduct and evidence admissibility to prepare forensic reconstructionists for what awaits them when they take the witness stand. Crime Reconstruction, Second Edition, remains an unparalleled watershed collaborative effort by internationally known, qualified, and respected forensic science practitioner holding generations of case experience among them. Forensic pioneer such as W. Jerry Chisum, John D. DeHaan, John I. Thornton, and Brent E. Turvey contribute chapters on crime scene investigation, arson reconstruction, trace evidence interpretation, advanced bloodstain interpretation, and ethics. Other chapters cover the subjects of shooting incident reconstruction, interpreting digital evidence, staged crime scenes, and examiner bias. Rarely have so many forensic giants collaborated, and never before have the natural limits of physical evidence been made so clear. Updates to the majority of chapters, to comply with the NAS Report New chapters on forensic science, crime scene investigation, wound pattern analysis, sexual assault reconstruction, and report writing Updated with key terms, chapter summaries, discussion questions, and a comprehensive glossary; ideal for those teaching forensic science and crime reconstruction subjects at the college level Provides clear practice standards and ethical guidelines for the practicing forensic scientist

This new edition of Forensic Science: The Basics provides a fundamental background in forensic science as well as criminal investigation and court testimony. It describes how various forms of data are collected, preserved, and analyzed, and also explains how expert testimony based on the analysis of forensic evidence is presented in court. The book The first edition of Statistics and the Evaluation of Evidence for Forensic Scientists established itself as a highly regarded authority on this area. Fully revised and updated, the second edition provides significant new material on areas of current interest including: Glass Interpretation Fibres Interpretation Bayes' Nets The title presents comprehensive coverage of the statistical evaluation of forensic evidence. It is written with the assumption of a modest mathematical background and is illustrated throughout with up-to-date examples from a forensic science background. The clarity of exposition makes this book ideal for all forensic scientists, lawyers and other professionals in related fields interested in the quantitative assessment and evaluation of evidence. 'There can be no doubt that the appreciation of some evidence in a court of law has been greatly enhanced by the sound use of statistical ideas and one can be confident that the next decade will see further developments, during which time this book will admirably serve those who have cause to use statistics in forensic science.' D.V. Lindley

Simpson's Forensic Medicine, 14th Edition

An Introduction to the Work of a Medical Examiner

Forensic Pathology Reviews

Lee and Gaensslen's Advances in Fingerprint Technology

A Guide to Forensic DNA Profiling

The Science of Crime Scenes, Second Edition offers a science-based approach to crime scenes, emphasizing that understanding is more important than simply knowing. Without sacrificing technical details, the book adds significantly to the philosophy and theory of crime scene science. This new edition addresses the science behind the scenes and demonstrates the latest methods and technologies with updated figures and images. It covers the philosophy of the crime scene, the personnel involved at a scene (including the media), the detection of criminal traces and their reconstruction, and special crime scenes, such as mass disasters and terroristic events. Written by an international trio of authors with decades of crime scene experience, this book is the next generation of crime scene textbooks. This volume will serve both as a textbook for forensic programs, and as an excellent reference for forensic practitioners and crime scene technicians with science backgrounds. Includes in-depth coverage of disasters and mass murder, terror crime scenes and CBRN (Chemical, biological, radioactive and nuclear) – topics not covered in any other text Includes an instructor site with lecture slides, images and links to resources for teaching and training

This A to Z encyclopedia provides a comprehensive, definitive, and up-to-date reference of the main areas of specialist and expert knowledge and skills used by those involved in all aspects of the forensic process, including, but not limited to, forensic scientists, doctors, practicing and academic lawyers, paralegals, police, crime scene investigators, analytical chemists, behavioral scientists and toxicologists. This five-volume set covers all topics which,

either as part of an established forensic discipline or as a potentially useful emerging discipline, are of interest to those involved in the forensic process. This includes both the scientific methodology and the admissibility of evidence. The encyclopedia also provides case studies of landmark cases in the definition and practice of forensic science. Wiley Encyclopedia of Forensic Science presents all material on a level and in a style that makes it accessible to a wide range of readers. In particular, lawyers needing to better understand the key aspects of the science, and scientists who require a deeper insight into legal issues will find the encyclopedia an important resource, as will physical, biological and behavioral scientists who require background information on the most important aspects of each other's areas of expertise.

Cyber-attacks are rapidly becoming one of the most prevalent issues globally, and as they continue to escalate, it is imperative to explore new approaches and technologies that help ensure the security of the online community. Beyond cyber-attacks, personal information is now routinely and exclusively housed in cloud-based systems. The rising use of information technologies requires stronger information security and system procedures to reduce the risk of information breaches. Advanced Methodologies and Technologies in System Security, Information Privacy, and Forensics presents emerging research and methods on preventing information breaches and further securing system networks. While highlighting the rising concerns in information privacy and system security, this book explores the cutting-edge methods combatting digital risks and cyber threats. This book is an important resource for information technology professionals, cybercrime researchers, network analysts, government agencies, business professionals, academicians, and practitioners seeking the most up-to-date information and methodologies on cybercrime, digital terrorism, network security, and information technology ethics.

Forensic science includes all aspects of investigating a crime, including: chemistry, biology and physics, and also incorporates countless other specialties. Today, the service offered under the guise of 'forensic science' includes specialties from virtually all aspects of modern science, medicine, engineering, mathematics and technology. The Encyclopedia of Forensic Sciences, Second Edition is a reference source that will inform both the crime scene worker and the laboratory worker of each other's protocols, procedures and limitations. Written by leading scientists in each area, every article is peer reviewed to establish clarity, accuracy, and comprehensiveness. As reflected in the specialties of its Editorial Board, the contents covers the core theories, methods and techniques employed by forensic scientists – and applications of these that are used in forensic analysis. This 4-volume set represents a 30% growth in articles from the first edition, with a particular increase in coverage of DNA and digital forensics Includes an international collection of contributors The second edition features a new 21-member editorial board, half of which are internationally based Includes over 300 articles, approximately 10pp on average Each article features a) suggested readings which point readers to additional sources for more information, b) a list of related Web sites, c) a 5-10 word glossary and definition paragraph, and d) cross-references to related articles in the encyclopedia Available online via SciVerse ScienceDirect. Please visit www.info.sciencedirect.com for more information This new edition continues the reputation of the first edition, which was awarded an Honorable Mention in the prestigious Dartmouth Medal competition for 2001. This award honors the creation of reference works of outstanding quality and significance, and is sponsored by the RUSA Committee of the American Library Association

Encyclopedia of Chromatography (Print)

Encyclopedia of Forensic Science

Weight-of-Evidence for Forensic DNA Profiles

Clinical Essentials (Expert Consult -- Online)

Encyclopedia of Forensic Sciences

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.

With the use of false transmissions and forged documents on a strategically placed dead body, Britain was able to perpetuate a great ruse on the Nazi Machine.

Environmental forensics is the application of scientific techniques for the purpose of identifying the source and age of a contaminant. Over the past several years, this study has been expanding as a course of study in academia, government and commercial markets. The US Environmental Protection Agency (EPA), Federal Bureau of Investigation (FBI), and Federal Emergency Management Agency (FEMA) are among the governmental agencies that utilize the study of environmental forensics to ensure national security and to ensure that companies are complying with standards. Even the International Network for Environmental Compliance and Enforcement (INECE), a group supported by the European Commission and the World Bank, utilizes the study of environmental forensics as it applies to terror threats. This title is a hands-on guide for environmental scientists, engineers, consultants and industrial scientists to identify the origin and age of a contaminant in the environment and the issues involved in the process. An expansion of the authors' first title with Academic Press, Introduction to Environmental Forensics, this is a state-of-the-art reference for those exploring the scientific techniques available. Up-to-date compendium for referencing forensic techniques unique to particular

contaminants. International scientific unit system Contributors from around the world providing international examples and case studies.

Takes readers into the fascinating world of the medical examiner, who must determine cause of death, and explains the systems and tools used to determine if death was natural, accidental, suicide or murder.

Statistics and the Evaluation of Evidence for Forensic Scientists

Handbook of Biometrics for Forensic Science

Forthcoming Books

Why Criminal Law Doesn't Give People What They Deserve

The Basics, Fourth Edition

This ambitious multidisciplinary volume surveys the science, forensics, politics, and ethics involved in responding to missing persons cases. International experts across the physical and social sciences offer data, case examples, and insights on best practices, new methods, and emerging specialties that may be employed in investigations. Topics such as secondary victimization, privacy issues, DNA identification, and the challenges of finding victims of war and genocide highlight the uncertainties and complexities surrounding these cases as well as possibilities for location and recovery. This diverse presentation will assist professionals in accessing new ideas, collaborating with colleagues, and handling missing persons cases with greater efficiency—and potentially greater certainty. Among the Handbook's topics:

- A profile of missing persons: some key findings for police officers.
- Missing persons investigations and identification: issues of scale, infrastructure, and political will.
- Pregnancy and parenting among runaway and homeless young women.
- Estimating the appearance of the missing: forensic age progression in the search for missing persons.
- The use of trace evidence in missing persons investigations.
- The Investigation of historic missing persons cases: genocide and "conflict time" human rights abuses.

The depth and scope of its expertise make the Handbook of Missing Persons useful for criminal justice and forensic professionals, health care and mental health professionals, social scientists, legal professionals, policy leaders, community leaders, and military personnel, as well as for the general public.

Covers all aspects of forensic science past and present, from types of crime and evidence, to forensic scientists and officials, to the criminals they seek.

Technological advances, although beneficial and progressive, can lead to vulnerabilities in system networks and security. While researchers attempt to find solutions, negative uses of technology continue to create new security threats to users. New Threats and Countermeasures in Digital Crime and Cyber Terrorism brings together research-based chapters and case studies on security techniques and current methods being used to identify and overcome technological vulnerabilities with an emphasis on security issues in mobile computing and online activities. This book is an essential reference source for researchers, university academics, computing professionals, and upper-level students interested in the techniques, laws, and training initiatives currently being implemented and adapted for secure computing.

Emergency Medicine, 2nd Edition delivers all the relevant clinical core concepts you need for practice and certification, all in a comprehensive, easy-to-absorb, and highly visual format. This well-regarded emergency medicine reference offers fast-access diagnosis and treatment guidelines that quickly provide the pearls and secrets of your field, helping you optimize safety, efficiency, and quality in the ED as well as study for the boards. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Get clear, concise descriptions and evidence-based treatment guidelines for a full range of clinical conditions, ranging from the common to the unusual. Find the information you need quickly with a highly visual format that features hundreds of full-color clinical photographs, illustrations, algorithms, tables, and graphs, plus key information highlighted for fast reference. Consult high-yield text boxes in every chapter for Priority Actions, Facts and Formulas, Documentation, Patient Teaching Tips, Red Flags, and Tips and Tricks. Make the most of your limited time with easy-to-digest blocks of information, consistently presented for clear readability and quick reference. Study efficiently and effectively for the boards, or rapidly consult this title in daily practice, thanks to well-organized chapters, a superb use of images and diagrams, and clinically relevant, easy-to-understand content. Benefit from the knowledge and expertise of renowned educators, dedicated to compiling today's best knowledge in emergency medicine into one highly useful, readable text. Be prepared to manage increasingly prevalent problems seen in the ED, such as emergent complications of fertility treatment and management of patients who have had bariatric surgery. Deliver high-quality care to your younger patients with expanded pediatrics content. Stay up to date with new chapters on Clotting Disorders and Hemophilia, Patient-Centered Care, Health Disparities and Diversity in Emergency Medicine, Cost-Effectiveness Analysis, Antibiotic Recommendations for Empirical Treatment of Selected Infectious Diseases, and Cardiac Emergency Ultrasound: Evaluation for Pericardial Effusion & Cardiac Activity. Access the complete contents of Emergency Medicine online, fully searchable, at www.expertconsult.com, with downloadable images, tables and boxes, and expanded chapters, plus videos demonstrating ultrasound-guided vascular access, sonography for trauma, and more.

The Diagnosis and Management of Agitation

Bibliography of Scientific and Industrial Reports

Encyclopedia of Forensic and Legal Medicine

A Compendium of Detective Fact and Fiction

Emergency Medicine E-Book

Written by experts for the general audience, this A-Z presentation covers all aspects of forensic science from its beginning to its central place in modern law enforcement.

"Techniques of Crime Scene Investigation is a staple for any forensic science library and is routinely referenced by professional organizations as a study guide for certifications. It is professionally written and provides updated theoretical and practical applications using real casework. This text is a must-have for any CSI Unit or course teaching Crime Scene Investigation." – Kevin Parmelee, PhD, Detective (ret.), Somerset County, NJ Prosecutor's Office Since the first English-language edition of Techniques of Crime Scene Investigation was published in 1964, the book has continued to be a seminal work in the field of forensic science, serving as a foundational textbook and reference title for professionals. This Ninth Edition includes several new chapters and has been fully updated and organized to present the effective use of science and technology in support of justice. New coverage to this edition addresses the debunking of a few forensic science disciplines, long thought to have been based on sound science. The book provides students, crime scene investigators, forensic scientists, and attorneys the proper ways to examine crime scenes and collect a wide variety of physical evidence that may be encountered. While it is not possible to cover every imaginable situation, this book is a comprehensive guide that details and promotes best practices and recommendations. In

today ' s challenging environment, it is essential that law enforcement personnel thoroughly understand and meticulously comply with the forensic evidence procedures that apply to their function in the investigation process. Criminal investigations remain as complex as ever and require professionals from many disciplines to work cooperatively toward the fair and impartial delivery of justice. Practitioners and students alike need to be aware of the increased scrutiny that they will face in the judicial system. Judges are taking a more involved role than ever before as far as the evidence and testimony that they allow into their courtrooms. No longer will substandard forensic science or crime scene investigation be acceptable. Key features: Newly reorganized contents—including 4 brand new chapters—reflects a more logical flow of crime scene processes and procedures Provides an overview of the crime scene investigation process and procedures, from the first officer on the scene through the adjudication of the case Includes several new cases, photos, and updates in technological advances in both digital evidence and DNA in particular Science and technology applied to CSI solves crimes and saves lives. Investigators, prosecutors, and defense attorneys must be able to use forensic tools and resources to their fullest potential and Techniques of Crime Scene Investigation serves as an invaluable resource to further this cause.

Forensic soil science and geology provides information and operational support to assist the police and law enforcement with criminal and environmental investigations. These include: crime scene examination and the collection of soil and other materials; analysis and interpretation of this geological trace evidence; and searches associated with homicide graves, counter-terrorism and serious and organized crime. This volume provides new and sophisticated field and laboratory methods and operational casework.

This practical, single-volume source collects up-to-date information on chromatographic techniques and methodologies for the solution of analytical and preparative problems applicable across a broad spectrum of disciplines including biotechnology, pharmaceuticals, environmental sciences, polymers, food additives and nutrients, pathology, toxicology, fossil fuels, and nuclear chemistry. It highlights real-world applications, easy-to-read fundamentals of problem solving and material identification methods, and detailed references. Written by over 180 esteemed international authorities and containing over 300 chapters, 2600 works cited, and 1000 drawings, equations, tables, and photographs, the Encyclopedia of Chromatography covers high-performance liquid, thin-layer, gas, affinity, countercurrent, supercritical fluid, gel permeation, and size exclusion chromatographies as well as capillary electrophoresis, field-flow fractionation, hyphenated techniques, and more. PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT e-reference@taylorandfrancis.com

Advanced Methodologies and Technologies in System Security, Information Privacy, and Forensics

Forensic Science

Deathly Deception

Law Without Justice

Contaminant Specific Guide

This comprehensive handbook addresses the sophisticated forensic threats and challenges that have arisen in the modern digital age, and reviews the new computing solutions that have been proposed to tackle them. These include identity-related scenarios which cannot be solved with traditional approaches, such as attacks on security systems and the identification of abnormal/dangerous behaviors from remote cameras. Features: provides an in-depth analysis of the state of the art, together with a broad review of the available technologies and their potential applications; discusses potential future developments in the adoption of advanced technologies for the automated or semi-automated analysis of forensic traces; presents a particular focus on the acquisition and processing of data from real-world forensic cases; offers an holistic perspective, integrating work from different research institutions and combining viewpoints from both biometric technologies and forensic science.

Encyclopedia of Forensic and Legal Medicine, Volumes 1-4, Second Edition is a pioneering four volume encyclopedia compiled by an international team of forensic specialists who explore the relationship between law, medicine, and science in the study of forensics. This important work includes over three hundred state-of-the-art chapters, with articles covering crime-solving techniques such as autopsies, ballistics, fingerprinting, hair and fiber analysis, and the sophisticated procedures associated with terrorism investigations, forensic chemistry, DNA, and immunoassays. Available online, and in four printed volumes, the encyclopedia is an essential reference for any practitioner in a forensic, medical, healthcare, legal, judicial, or investigative field looking for easily accessible and authoritative overviews on a wide range of topics. Chapters have been arranged in alphabetical order, and are written in a clear-and-concise manner, with definitions provided in the case of obscure terms and information supplemented with pictures, tables, and diagrams. Each topic includes cross-referencing to related articles and case studies where further explanation is required, along with references to external sources for further reading. Brings together all appropriate aspects of forensic medicine and legal medicine Contains color figures, sample forms, and other materials that the reader can adapt for their own practice Also available in an on-line version which provides numerous additional reference and research tools, additional multimedia, and powerful search functions Each topic includes cross-referencing to related articles and case studies where further explanation is required, along with references to external sources for further reading

For the past three decades, ARBA has kept librarians up to date on the latest reference materials by providing high-quality, critical reviews. The 2007 edition of ARBA continues this great tradition by providing users with access to 1,600-plus reviews of both print and online resources, written by more than 400 academic, public, and school librarians who are experts in their field. With coverage of nearly 500 subject disciplines, ranging from the social sciences and humanities to science and technology, users are guaranteed to find information on the latest resources available in the areas they are most trying to expand their collection. With ARBA in hand, collection development librarians can manage their library's high standards of quality, and make the best use of their budget.

The increasingly arcane world of DNA profiling demands that those needing to understand at least some of it must find a source of reliable and understandable information. Combining material from the successful Wiley Encyclopedia of Forensic Science with newly commissioned and updated material, the Editors have used their own extensive experience in criminal casework across the world to compile an informative guide that will provide knowledge and thought-provoking articles of interest to anyone involved or interested in the use of DNA in the forensic context. Following extensive introductory chapters covering forensic DNA profiling and forensic genetics, this comprehensive volume presents a substantial breadth of material covering: Fundamental material – including sources of DNA, validation, and accreditation Analysis and interpretation – including, extraction, quantification, amplification and interpretation of electropherograms (epgs) Evaluation – including mixtures, low template, and transfer Applications – databases, paternity and kinship, mitochondrial-DNA, wildlife DNA, single-nucleotide polymorphism, phenotyping and familial searching Court - report writing, discovery, cross examination, and current controversies With contributions from leading experts across the whole gamut of forensic science, this volume is intended to be authoritative but not authoritarian, informative but comprehensible, and comprehensive but concise. It will prove to be a valuable addition, and useful

resource, for scientists, lawyers, teachers, criminologists, and judges.

An Encyclopedia of History, Methods, and Techniques

Crime Reconstruction

Forensic Chemistry

The Real Story of Operation Mincemeat

Environmental Forensics

An annotated bibliography listing general reference works as well as those on social sciences, humanities, and science and technology

This book is a ... for thoughtful legislators and all the rest of us who seek justice for persons charged with crimes-proportional punishment of the guilty, and exculpation of the morally blameless. The authors demonstrate, with remarkable lucidity, how and why the criminal law sometimes deliberately sacrifices justice for other goals, and they provide thoughtful, controversial, and often persuasive suggestions on how we can redesign our legal system to give people their just deserts. [In the book, the authors offer an] account of how the American criminal justice system fails to give offenders their just deserts in a number of different contexts. From the refusal to allow partial exoneration for defenses like mistake of law and insanity to the practical limitations on detecting and prosecuting offenders, [they also] demonstrate through ... discussions of actual cases the many areas where criminal sentencing fails to do justice. -Dust jacket.

Forensic Chemistry is a comprehensive overview of the subject aimed at those students who have a basic understanding of the underlying principles and are looking for a more detailed reference text. This book is aimed at advanced students who are studying forensic science or analytical chemistry, faculty and researchers, and practitioners such as crime laboratory bench scientists. The authors will assume that the reader will have an introductory knowledge of forensic science and forensic chemistry and will have had analytical, organic and instrumental chemistry. None of the major analytical chemical techniques will have separate treatments in the book, with the exception of forensic microscopy, which will have a chapter because many students in chemistry and forensic science do not get dedicated classes in this area. The book will have separate chapters on all of the major areas of forensic chemistry and, in addition, will have a chapter devoted to chemometrics, which is the statistical treatment of large amounts of data to discover groupings, similarities and differences among the data. Each chapter will be written by an acknowledged international expert in that area. Each author will be given detailed instructions as to the intended audience, as well as expected breadth and depth of coverage of the material in the hopes that this will minimize the problem of uneven coverage of topics and chapters that often occurs in edited books. Although each of the types of evidence covered in the book use methods of analysis that lie outside chemistry, these will be mentioned only for completeness in passing. The emphasis will be on the use of chemical tools in evidence analysis. This book is designed to be either a text book for an advanced forensic chemistry course, or a treatise in forensic chemistry for the scientist who wants to learn the subject in some depth. It is not designed to be a survey of the current literature in the field or a reference manual.

Knight's Forensic Pathology Fourth Edition

Techniques of Crime Scene Investigation

The Basics, Third Edition

Book Review Index

The Encyclopedia of Forensic Science