



*Shoe print found in mud*



*Cast made from shoe print*



*Suspect shoe matcher cast.*

# Footwear Impression Evidence

**S. McKasson**



## **Footwear Impression Evidence:**

*Forensic Footwear Evidence* William J. Bodziak, 2017-12-19 The utilization of footwear impression evidence continues to evolve with new materials equipment and techniques providing an increased ability to detect record enhance and examine this form of evidence Recently developed technology now allows investigators to more efficiently or in some cases instantly link multiple crime scenes where impressions have been produced by the same perpetrator Forensic Footwear Evidence covers a wide range of relevant topics including historical references general information about the formation and investigative use of footwear impressions and the best practices and considerations that apply to the recovery enhancement and examination of this evidence Drawing on the author s 44 years of acquired knowledge and experience it is the most comprehensive and authoritative text published to date on this topic Highlighted topics covered within the book include Three chapters covering footwear manufacturing Shoe grading sizing and the forensic application of sizing information Examination and reporting procedures Casting impressions in snow Barefoot evidence Topics of interest for both prosecution and defense attorneys The book includes more than 300 color photographs and illustrations throughout as well as case examples that apply theoretical concepts to the real world A single complete reference on the subject Forensic Footwear Evidence presents a wide range wealth of information that will serve as an invaluable reference to novice and experienced examiners crime scene technicians investigators and prosecution and defense counselors alike Footwear Impression Evidence William J. Bodziak, 2017-11-22 Reviewed and recognized as the most authoritative source in the field this book describes the methods used worldwide to recover and identify footwear impressions from the scene of a crime In this new edition everything including the original twelve chapters bibliography appendix etc has been clarified updated and expanded This edition includes updated and new information on recovery procedures and materials such as lifting photography and casting chemical enhancement updated information about footwear manufacturing footwear sizing and known impression techniques and materials WHAT S NEW IN THE SECOND EDITION Besides updating and expanding the twelve original chapters Footwear Impression Evidence Detection Recovery and Examination Second Edition adds three new chapters one chapter on barefoot evidence which concerns impressions made by the naked or sock clad foot or those which remain in abandoned or discarded footwear another new chapter on several cases in which the footwear impression evidence was of primary importance in bringing about a conviction or confession and finally a new chapter on the footwear impression evidence in the O J Simpson criminal and civil cases **Analysis of Footwear Impression Evidence** Sargur N. Srihari, National Institute of Justice (U.S.), 2010 Impressions of footwear are commonly found in crime scenes The quality and wide variability of these impressions and the large number of footwear outsole designs makes their manual analysis time consuming and difficult The goal of this research was to develop new computational methods that will eventually assist the forensic footwear examiner in the U S Two scenarios encountered by the forensic examiner were addressed i in the

investigative phase to determine the source of an impression given a known set of outsole prints which is useful in homicides and assaults where there are no known prints to match and ii in the prosecutorial phase to determine whether a particular impression evidence is from a known suspect's shoe with a quantification of similarity and uncertainty The research commenced with developing and acquiring representative footwear print images so that the algorithms developed would relate to the real problem encountered Algorithms for several sub problems were studied including image processing to improve the quality of the image for further automatic processing extraction of features useful for discrimination a measure of similarity between impressions and a content based image retrieval system to reduce possible matches with knowns The principal method pursued was one where the print is characterized as being composed of a pattern of geometric shapes principally ellipses with ellipses being able to represent straight line segments and circles as well A distance measure based on comparing attribute relational graphs was developed The retrieval system compares evidence features with pre computed features of database entries and since comparison is time consuming the database entries are clustered Retrieval performance is better than that of other methods described in the literature very few of which deal with real crime scene prints Future research tasks are indicated including integration of the developed methods into a usable tool and a probabilistic measure of uncertainty in the verification task      *Footwear evidence* John Reginald Abbott,1964-05-01

**Analysis of Footwear Impression Evidence - Scholar's Choice Edition** Sargur N. Srihari,National Institute of Justice,2015-02-16 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant      *Analysis of Footwear Impression Evidence* National Institute of Justice (Nij),SARGUR N. SRIHARI,2025-05-22 The National Institute of Justice NIJ is the research development and evaluation agency of the US Department of Justice The NIJ is dedicated to improving knowledge and understanding of crime and justice issues through science NIJ provides objective and independent knowledge and tools to reduce crime and promote justice particularly at the state and local levels Each year the NIJ publishes and sponsors dozens of research and study documents detailing results analyses and statistics that help to further the organization's mission These documents relate to topics like biometrics corrections technology gun violence digital

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*Footwear, the Missed Evidence* Dwane S. Hilderbrand,1999-01-01 **Mechanics of Impression Evidence** David S. Pierce,2011-02-23 Presenting the hard science increasingly required by courts to back up expert opinion in cases that hinge on impression evidence comparison this book applies the methods of physics chemistry and engineering to analysis and interpretation of fingerprints footwear and tire tread impressions and bloodstains Using easily accessible language it shows the scientific method behind each of these discrete disciplines It then combines and cross references the knowledge within each to ultimately present a more generalist approach and thus a more informed judgment *Crime Scene Investigation* Jacqueline T. Fish,Larry S. Miller,Michael C. Braswell,2010-12-13 Crime Scene Investigation offers an innovative approach to learning about crime scene investigation taking the reader from the first response on the crime scene to documenting crime scene evidence and preparing evidence for courtroom presentation It includes topics not normally covered in other texts such as forensic anthropology and pathology arson and explosives and the electronic crime scene Numerous photographs and illustrations complement text material and chapter by chapter fictional narrative also provides the reader with a qualitative dimension of the crime scene experience The text is further enhanced by the contributions of such recognized forensic scholars as William Bass and Arthur Bohannon Dozens of photographs and illustrations supplement the text Includes key terms discussion questions and a glossary A chapter by chapter fictional narrative provides a colorful look at a crime scene investigation **An Introduction to Crime Scene Investigation** Aric W. Dutelle,2014 In a world profoundly influenced by

popular media programs the real life duties and complexities involved in crime scene investigation are often misrepresented and misunderstood The revised and updated second edition of An Introduction to Crime Scene Investigation serves to eliminate warped impressions and to clearly identify and accurately explain the crime scene investigative process components methods and procedures This comprehensive introductory text exposes readers to the day to day aspects of crime scene processing and describes in detail the crime scene investigator responsibilities The history related to crime scene investigation theory ethics social impact training and educational issues are thoroughly explored as well New and Key Features of the Second Edition New full color design enhances the photos and illustrations creating a more visually engaging experience for students Provides increased coverage of ethics to offer students a well rounded introduction to the subject Presents straightforward and scientifically supported procedures that explain how to accurately and efficiently document what has been left behind at the scene of a crime Provides an in depth look at the CSI world through over 100 photographs illustrations and short narrative segments that will guide the reader through investigations Effectively covers a variety of investigations such as burglary homicide sex crimes drug cases hazardous materials situations arson and more CSI for the First Responder Jan LeMay,2017-09-11 Critical to the successful apprehension and prosecution of criminals the job of collecting evidence at a crime scene requires knowledge technical skills patience and perseverance Often this task falls on just one individual the officer on routine patrol duties who is the first to arrive at the scene of a crime Written by an expert with seventeen years experience in law enforcement CSI for the First Responder is a succinct guide on how to secure search identify document collect and preserve physical evidence essential for solving a case and making the evidence stand up in court A practical hands on resource to all aspects of crime scene investigation this book covers The approach to the scene Securing the scene Searching for and identifying evidence Documenting the evidence through notes and reports Photography and videotape Sketches and diagrams Collection and preservation The investigative value of different types of evidence Testimony and presenting evidence in court Enhanced with real life examples the book presents case studies implementing the described techniques The case studies include examples of successful scene security and documentation as well as cautionary tales of erroneous practices with lessons learned Also included with this book is a Quick Reference Guide on the downloadable resources which can be downloaded to patrol car laptops or printed and kept in a pocket for easy access Spanning the entire scope of a case from initial discovery of evidence to courtroom presentation this one stop resource enables law enforcement to nail down the evidence they need to prove the crime and get the conviction **Fundamentals of Forensic Science** Max M. Houck,Jay A. Siegel,2015-07-01 Fundamentals of Forensic Science Third Edition provides current case studies that reflect the ways professional forensic scientists work not how forensic academicians teach The book includes the binding principles of forensic science including the relationships between people places and things as demonstrated by transferred evidence the context of those people places and things and the meaningfulness of the physical

evidence discovered along with its value in the justice system Written by two of the leading experts in forensic science today the book approaches the field from a truly unique and exciting perspective giving readers a new understanding and appreciation for crime scenes as recent pieces of history each with evidence that tells a story Straightforward organization that includes key terms numerous feature boxes emphasizing online resources historical events and figures in forensic science Compelling actual cases are included at the start of each chapter to illustrate the principles being covered Effective training including end of chapter questions paired with a clear writing style making this an invaluable resource for professors and students of forensic science Over 250 vivid color illustrations that diagram key concepts and depict evidence encountered in the field

*An Introduction to Crime Scene Investigation* Dutelle, 2016-01-20 An Introduction to Crime Scene Investigation serves to eliminate warped impressions influenced by the media and clearly identifies and explains the crime scene investigative process components methods and procedures

*Crime Scene Forensics* Robert C Shaler, 2011-12-28 Bridging the gap between practical crime scene investigation and scientific theory Crime Scene Forensics A Scientific Method Approach maintains that crime scene investigations are intensely intellectual exercises that marry scientific and investigative processes Success in this field requires experience creative thinking logic and the correct application of the science and the scientific method Emphasizing the necessary thought processes for applying science to the investigation this text covers The general scene investigation process including definitions and philosophy as well as hands on considerations Archiving the crime scene through photography sketching and video Managing the crime scene investigation the glue that holds the investigation together Searching the crime scene the logical byproduct of archiving and management Impression pattern evidence including fingerprints bloodstains footwear impressions and tire track impressions The biological crime scene and recognizing collecting and preserving biological evidence including forensic entomology and evidence found at bioweapon scenes The fundamental principles of evidence as expressed by the Principle of Divisible Matter and the Locard Exchange Principle every touch leaves a trace Trace evidence including glass paint and soil Shooting incident scenes with discussion of bullet paths and gunshot residue The final section examines fire scenes quality assurance issues and methods for collecting and preserving various evidence types not covered in other chapters The delicate balance among logic science and investigative activity must be understood in order to successfully work a crime scene Enhanced by more than 200 color images this volume provides investigators and students with the tools to grasp these critical concepts paving an expeditious path to the truth

**Complete Crime Scene Investigation Workbook** Everett Baxter Jr., 2017-09-28 This specially developed workbook can be used in conjunction with the Complete Crime Scene Investigation Handbook ISBN 978 1 4987 0144 0 in group training environments or for individuals looking for independent step by step self study guide It presents an abridged version of the Handbook supplying both students and professionals with the mos

**Review of Footwear Impression Evidence, Second Edition** S. McKasson, 2000 The first edition of this text published by Elsevier in 1990 is

probably in every footwear examiner's library so it is easy to say that the second edition belongs there too. Small improvements were made throughout although the first edition will no doubt remain a classic reference a benchmark in its time. Alas Tempus Fugit and the new edition is necessary to provide many needed updates to the original text particularly in the chapter on enhancement of impressions. The new edition's format is a little larger than the first edition allowing some of the photographs to be enlarged although the contrast is higher in the original so the improvement is debatable. Three new chapters added at the end of the book represent the major change to the work. The chapter devoted to the evidence in the O J Simpson case is a highlight of course. If you have the first edition and like it by all means get the second edition.

*Practical Crime Scene Processing and Investigation, Third Edition* Ross M. Gardner, Donna Krouskup, 2018-09-20

Every action performed by a crime scene investigator has an underlying purpose to both recover evidence and capture scene context. It is imperative that crime scene investigators must understand their mandate not only as an essential function of their job but because they have the immense responsibility and duty to do so. Practice Crime Scene Processing and Investigation Third Edition provides the essential tools for what crime scene investigators need to know what they need to do and how to do it. As professionals any investigator's master is the truth and only the truth. Professional ethics demands an absolute adherence to this mandate. When investigators can effectively seek collect and preserve information and evidence from the crime scene to the justice system doing so without any agenda beyond seeking the truth not only are they carrying out the essential function and duty of their job it also increases the likelihood that the ultimate goal of true justice will be served. Richly illustrated with more than 415 figures including over 300 color photographs the Third Edition of this best seller thoroughly addresses the role of the crime scene investigator in the context of Understanding the nature of physical evidence including fingerprint biological trace hair and fiber impression and other forms of evidence. Assessing the scene including search considerations and dealing with chemical and bioterror hazards. Crime scene photography scene sketching mapping and documentation and the role of crime scene analysis and reconstruction. Bloodstain pattern analysis and discussion of the body as a crime scene. Special scene considerations including fire buried bodies and entomological evidence. Coverage details the importance of maintaining objectivity emphasizing that every action the crime scene investigator performs has an underlying purpose to both recover evidence and capture scene context. Key features. Outlines the responsibilities of the responding officer from documenting and securing the initial information to providing emergency care. Includes three new chapters on light technology and crime scene processing techniques recovering fingerprints and castings. Addresses emerging technology and new techniques in 3 D Laser scanning procedures in capturing a scene. Provides a list of review questions at the end of each chapter. Practice Crime Scene Processing and Investigation Third Edition includes practical proven methods to be used at any crime scene to ensure that evidence is preserved admissible in court and persuasive. Course ancillaries including PowerPoint lecture slides and a Test Bank are available with qualified course adoption.

*Forensic Science* Kathy Mirakovits, 2016-04-19



As forensic science continues to play a wider role in the investigation of crimes and apprehension of criminals those without crime scene or crime lab training must now become familiar with the techniques and language of the forensic scientist. Avoiding the complicated science and graphic violence typical of most forensic references this book is written specifically for those without forensic science experience. While it provides a professional reference for those not steeped in the details of forensic science the wealth of instructor material available for teachers and its pedagogical approach make this an ideal textbook for high school and introductory level courses. Following up on the tremendously popular first edition *Forensic Science The Basics* Second Edition now adds the insight of a new co author who is known nationally for training instructors how to teach forensic science at all levels of education. The book takes readers from the initial evidence collection process through the evaluation procedures right up to and including the courtroom presentation. Packed with case studies photographs and exercises this book provides everything the non scientist needs to be able to understand and utilize the vital research approaches that forensic science can offer. Test Yourself questions at the end of each chapter familiarize you with the language and approaches needed to understand and communicate with experienced crime scene investigators and laboratory personnel. Offering the forensic sciences at their most accessible *Forensic Science The Basics* Second Edition is a valuable resource for detectives journalists prosecutors defense attorneys and other non science professionals who need to understand interpret and report on the newest advances in crime scene investigation. PowerPoint lecture slides test bank and other ancillary material on CD ROM is available with qualifying course adoption.

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