

# Statistical Science In The Courtroom Statistics For Social And Behavioral Sciences

DNA Technology in Forensic Science  
Statistical DNA Forensics  
Encyclopedia of Statistical Sciences, Volume 4  
Social Science in the Courtroom  
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Guide to Information Sources in the Forensic Sciences  
Reference manual on scientific evidence  
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Statistics and the Evaluation of Evidence for

Forensic Scientists Handbook of Probability

## **DNA Technology in Forensic Science**

Examines the impact of DNA technology on issues of ethics, civil liberties, privacy, and security.

## **Statistical DNA Forensics**

In the wrong hands, math can be deadly. Even the simplest numbers can become powerful forces when manipulated by journalists, politicians or other public figures, but in the case of the law your liberty—and your life—can depend on the right calculation. *Math on Trial* tells the story of ten trials in which mathematical arguments were used—and disastrously misused—as evidence. Despite years of math classes, most people (and most jurors) fail to detect even simple mathematical sophistry, resulting in such horrors as a medical expert's faulty calculation of probabilities providing the key evidence for a British mother's conviction for the murder of her two babies. The conviction was later overturned, but three years in prison took its toll—Sally Clark died of acute alcohol intoxication in March of 2007. Mathematicians Leila Schneps and Coralie Colmez use a wide range of examples, from a mid-19th-century dispute over wills that became a

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signal case in the forensic use of mathematics, to the conviction and subsequent exoneration of Amanda Knox, to show how the improper application of mathematical concepts can mean the difference between walking free and life in prison. The cases discussed include: -The Case of Amanda Knox (How a judge's denial of a second DNA test may have destroyed a chance to reveal the truth about Meredith Kercher's murder) -The Case of Joe Sneed (How a fabricated probability framed a son for his parents' grisly killing) -The Case of Sally Clark (How multiplying non-independent probabilities landed an innocent mother in jail for the murder of her children) -The Case of Janet Collins (How unjustified estimates combined with a miscalculated probability convicted an innocent couple of violent robbery) A colorful narrative of mathematical abuse featuring such characters as Charles Ponzi, Alfred Dreyfus, Hetty Green, and Oliver Wendell Holmes, Math on Trial shows that legal expertise isn't everything when it comes to proving a man innocent.

### **Encyclopedia of Statistical Sciences, Volume 4**

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.

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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

### **Social Science in the Courtroom**

Countless professionals and students who use statistics in their work rely on the multi-volume Encyclopedia of Statistical Sciences as a superior and unique source of information on statistical theory, methods, and applications. This new edition (available in both print and on-line versions) is designed to bring the encyclopedia in line with the latest topics and advances made in statistical science over the past decade--in areas such as computer-intensive statistical methodology, genetics, medicine, the environment, and other applications. Written by over 600 world-renowned experts (including the editors), the entries are self-contained and easily understood by readers with a limited statistical background. With the publication of this second edition in 16 printed volumes, the Encyclopedia of Statistical Sciences

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retains its position as a cutting-edge reference of choice for those working in statistics, biostatistics, quality control, economics, sociology, engineering, probability theory, computer science, biomedicine, psychology, and many other areas. The Encyclopedia of Statistical Sciences is also available as a 16 volume A to Z set. Volume 4: F-Gr.

### **Forensic Evidence in Court**

Handbook of Forensic Statistics is a collection of chapters by leading authorities in forensic statistics. Written for statisticians, scientists, and legal professionals having a broad range of statistical expertise, it summarizes and compares basic methods of statistical inference (frequentist, likelihoodist, and Bayesian) for trace and other evidence that links individuals to crimes, the modern history and key controversies in the field, and the psychological and legal aspects of such scientific evidence. Specific topics include uncertainty in measurements and conclusions; statistically valid statements of weight of evidence or source conclusions; admissibility and presentation of statistical findings; and the state of the art of methods (including problems and pitfalls) for collecting, analyzing, and interpreting data in such areas as forensic biology, chemistry, and pattern and impression evidence. The particular types of evidence that are discussed include DNA, latent fingerprints, firearms and toolmarks, glass, handwriting, shoeprints, and voice exemplars.

## **The Evaluation of Forensic DNA Evidence**

### **DNA and the Criminal Justice System**

This book features the following salient topics: Admissibility of Scientific Evidence, A Functional Taxonomy of Expertise Ethical Standards of and Concerning Expert Witnesses; The Scientific Method; The Logic of Drawing Inferences From Empirical Evidences; Statistical Proof; Multiple Regression; Survey Research; Toxicology and Epidemiology.

### **Prove It with Figures**

### **AMSTAT News**

### **Statistics in the Law**

### **Statistics for Lawyers**

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Provides information on a variety of topics relating to the ethics of science and technology.

### **Introduction to Statistics for Forensic Scientists**

Court of Appeal Case(s): A048789 (lead) A050201

### **Malingering, Lies, and Junk Science in the Courtroom**

Describes ways of assessing forensic science evidence and the means of communicating the assessment to a court of law. The aim of this work is to ensure that the courts consider seriously the probability of the evidence of association.

### **Statistical Analysis in Forensic Science**

This book explains the correct logical approach to analysis of forensic scientific evidence. The focus is on general methods of analysis applicable to all forms of evidence. It starts by explaining the general principles and then applies them to issues in DNA and other important forms of scientific evidence as examples. Like the first edition, the book analyses real legal cases and judgments rather than hypothetical examples and shows how the problems perceived in those cases

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would have been solved by a correct logical approach. The book is written to be understood both by forensic scientists preparing their evidence and by lawyers and judges who have to deal with it. The analysis is tied back both to basic scientific principles and to the principles of the law of evidence. This book will also be essential reading for law students taking evidence or forensic science papers and science students studying the application of their scientific specialisation to forensic questions.

### **Guide to Information Sources in the Forensic Sciences**

The Handbook of Probability presents an equal balance of theory and direct applications in a non-technical, yet comprehensive format so that researchers of various backgrounds can use the reference either as a primer for understanding basic probability theory or as a more advanced research tool for specific projects requiring a deeper understanding or application of probability. The wide-ranging applications of probability presented make it useful for researchers who need to make interdisciplinary connections in their work, as well as professors who teach a range of students (social sciences, education, business, behavioral sciences, etc.) and need to bring probability into greater, concrete perspective for these students.

### **Reference manual on scientific evidence**

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The Law of Evidence has traditionally been perceived as a dry, highly technical, and mysterious subject. This book argues that problems of evidence in law are closely related to the handling of evidence in other kinds of practical decision-making and other academic disciplines, that it is closely related to common sense and that it is an interesting, lively and accessible subject. These essays develop a readable, coherent historical and theoretical perspective about problems of proof, evidence, and inferential reasoning in law. Although each essay is self-standing, they are woven together to present a sustained argument for a broad interdisciplinary approach to evidence in litigation, in which the rules of evidence play a subordinate, though significant, role. This revised and enlarged edition includes a revised introduction, the best-known essays in the first edition, and chapters on narrative and argumentation, teaching evidence, and evidence as a multi-disciplinary subject.

### **Encyclopedia of Science, Technology, and Ethics**

Prove It With Figures displays some of the tools of the social and statistical sciences that have been applied in the courtroom and to the study of questions of legal importance. It explains how researchers can extract the most valuable and reliable data that can conveniently be made available, and how these efforts sometimes go awry. In the tradition of Zeisel's standard work "Say It with Figures," the authors clarify, in non-technical language, some of the basic problems common

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to all efforts to discern cause-and-effect relationships. Designed as a textbook for law students who seek an appreciation of the power and limits of empirical methods, this is also a useful reference for lawyers, policymakers, and members of the public who would like to improve their critical understanding of the statistics presented to them. The many case histories include analyses of the death penalty, jury selection, employment discrimination, mass torts, and DNA profiling.

### **Rethinking Evidence**

Expert testimony relying on scientific and other specialized evidence has come under increased scrutiny by the legal system. A trilogy of recent U.S. Supreme Court cases has assigned judges the task of assessing the relevance and reliability of proposed expert testimony. In conjunction with the Federal judiciary, the American Association for the Advancement of Science has initiated a project to provide judges indicating a need with their own expert. This concern with the proper interpretation of scientific evidence, especially that of a probabilistic nature, has also occurred in England, Australia and in several European countries. Statistical Science in the Courtroom is a collection of articles written by statisticians and legal scholars who have been concerned with problems arising in the use of statistical evidence. A number of articles describe DNA evidence and the difficulties of properly calculating the probability that a random individual's profile would "match" that of the evidence as well as the proper way to interpret the

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result. In addition to the technical issues, several authors tell about their experiences in court. A few have become disenchanted with their involvement and describe the events that led them to devote less time to this application. Other articles describe the role of statistical evidence in cases concerning discrimination against minorities, product liability, environmental regulation, the appropriateness and fairness of sentences and how being involved in legal statistics has raised interesting statistical problems requiring further research.

### **Handbook of Forensic Statistics**

Forensic Science in Court: The Role of the Expert Witness is a practical handbook aimed at forensic science students, to help them prepare as an expert witness when presenting their evidence in court. Written in a clear, accessible manner, the book guides the student through the legal process and shows them how to handle evidence, write reports without ambiguity through to the more practical aspects of what to do when appearing in court. The book also offers advice on what to expect when working with lawyers in a courtroom situation. An essential text for all students taking forensic science courses who are required to take modules on how to present their evidence in court. The book is also an invaluable reference for any scientist requested to give an opinion in a legal context. · Integrates law and science in an easy to understand format · Inclusion of case studies throughout · Includes straightforward statistics essential for the forensic science student · An

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invaluable, practical textbook for anyone appearing as an expert witness in court · Unique in its approach aimed at forensic science students in a courtroom environment

### **Journal of the American Statistical Association**

The interpretation and evaluation of scientific evidence and its presentation in a court of law is central both to the role of the forensic scientist as an expert witness and to the interests of justice. This book aims to provide a thorough and detailed discussion of the principles and practice of evidence interpretation and evaluation by using real cases by way of illustration. The presentation is appropriate for students of forensic science or related disciplines at advanced undergraduate and master's level or for practitioners engaged in continuing professional development activity. The book is structured in three sections. The first sets the scene by describing and debating the issues around the admissibility and reliability of scientific evidence presented to the court. In the second section, the principles underpinning interpretation and evaluation are explained, including discussion of those formal statistical methods founded on Bayesian inference. The following chapters present perspectives on the evaluation and presentation of evidence in the context of a single type or class of scientific evidence, from DNA to the analysis of documents. For each, the science underpinning the analysis and interpretation of the forensic materials is explained, followed by the presentation of cases which

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illustrate the variety of approaches that have been taken in providing expert scientific opinion.

### **Indigeneity in the Courtroom**

The book will serve primarily as a user's manual or desk reference for the expert witness-lawyer team and secondarily as a textbook or supplemental textbook for upper level undergraduate statistics students. It starts with two articles by masters of the trade, Paul Meier and Franklin Fisher. It then explains the distinction between the Frye and Daughbert standards for expert testimony, and how these standards play out in court. The bulk of the book is concerned with individual cases ranging over a wide variety of topics, such as electronic draw poker (does it require skill to play), employment discrimination (how to tell whether an employer discriminated against older workers in deciding whom to fire), driving while black (did the New Jersey State Police disproportionately stop blacks), jury representativeness (is a jury a representative cross section of the community), juries hearing death penalty cases (are such juries biased toward a guilty verdict, and does the Supreme Court care), the civil incarceration of violent sexual offenders after having served their jail sentences (can future dangerousness be predicted), do data from multiple choice examinations support an allegation of copying, whether rental agents in an apartment complex steered African-American prospects to one part of the complex, how much tax is owed after an audit that

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used a random sample, whether an inventor falsified his notebook in an effort to fool the Patent Office, and whether ballots had been tampered with in an election. The book concludes with two recent English cases, one in which a woman was accused of murdering her infant sons because both died of "cot death" or "sudden death syndrome," (she was convicted, but later exonerated), and how Bayesian analyses can (or more precisely), cannot be presented in UK courts. In each study, the statistical analysis is shaped to address the relevant legal questions, and draws on whatever methods in statistics might shed light on those questions.

### **The Use of Social Science Data in Supreme Court Decisions**

Matching DNA samples from crime scenes and suspects is rapidly becoming a key source of evidence for use in our justice system. DNA Technology in Forensic Science offers recommendations for resolving crucial questions that are emerging as DNA typing becomes more widespread. The volume addresses key issues: Quality and reliability in DNA typing, including the introduction of new technologies, problems of standardization, and approaches to certification. DNA typing in the courtroom, including issues of population genetics, levels of understanding among judges and juries, and admissibility. Societal issues, such as privacy of DNA data, storage of samples and data, and the rights of defendants to quality testing technology. Combining this original volume with the new update--The Evaluation of Forensic DNA Evidence--provides the complete, up-to-

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date picture of this highly important and visible topic. This volume offers important guidance to anyone working with this emerging law enforcement tool: policymakers, specialists in criminal law, forensic scientists, geneticists, researchers, faculty, and students.

### **Strengthening Forensic Science in the United States**

The leading resource in the statistical evaluation and interpretation of forensic evidence The third edition of *Statistics and the Evaluation of Evidence for Forensic Scientists* is fully updated to provide the latest research and developments in the use of statistical techniques to evaluate and interpret evidence. Courts are increasingly aware of the importance of proper evidence assessment when there is an element of uncertainty. Because of the increasing availability of data, the role of statistical and probabilistic reasoning is gaining a higher profile in criminal cases. That's why lawyers, forensic scientists, graduate students, and researchers will find this book an essential resource, one which explores how forensic evidence can be evaluated and interpreted statistically. It's written as an accessible source of information for all those with an interest in the evaluation and interpretation of forensic scientific evidence. Discusses the entire chain of reasoning—from evidence pre-assessment to court presentation; Includes material for the understanding of evidence interpretation for single and multiple trace evidence; Provides real examples and data for improved understanding. Since the first edition of this book

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was published in 1995, this respected series has remained a leading resource in the statistical evaluation of forensic evidence. It shares knowledge from authors in the fields of statistics and forensic science who are international experts in the area of evidence evaluation and interpretation. This book helps people to deal with uncertainty related to scientific evidence and propositions. It introduces a method of reasoning that shows how to update beliefs coherently and to act rationally. In this edition, readers can find new information on the topics of elicitation, subjective probabilities, decision analysis, and cognitive bias, all discussed in a Bayesian framework.

### **Modern Scientific Evidence**

### **Forensic Science in Court**

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening

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Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

### **Consumer Financial Services**

### **The New Wigmore**

### **Math on Trial**

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The cultures of law and social science differ markedly as to the kinds of truth they pursue. Law is deductive, presenting its findings as certainties; social science is largely inductive, presenting its conclusions as subject to revision and contingency. Yet the legal community traditionally draws at will and unsystematically on the findings of social science, sometimes with unfortunate results. The authors of this study explore this issue by focusing on the manner in which the United States Supreme Court uses social science data in reaching its decisions. Concentrating on decisions involving the issues of abortion, sex discrimination, and sexual harassment, they show that the use of such data has increased over the last twenty years, but they also show that whether such data are used appears to hinge more on the liberal, conservative, or longheld positions of the judges and the types of cases involved, rather than on the objectivity or validity of the data. By offering insights into how data are used by the Supreme Court, the authors hope to show social scientists how to make their research more suitable for courtroom use and to show the legal community how such data can be used more effectively.

### **Handbook of Probability**

This book presents an analysis including the impact of more than fifteen federal statutes-ranging from the Civil Rights Act of 1866 to the Fair and Accurate Credit Transactions Act-on the banking.

## **California. Supreme Court. Records and Briefs**

In 1992 the National Research Council issued DNA Technology in Forensic Science, a book that documented the state of the art in this emerging field. Recently, this volume was brought to worldwide attention in the murder trial of celebrity O. J. Simpson. The Evaluation of Forensic DNA Evidence reports on developments in population genetics and statistics since the original volume was published. The committee comments on statements in the original book that proved controversial or that have been misapplied in the courts. This volume offers recommendations for handling DNA samples, performing calculations, and other aspects of using DNA as a forensic tool--modifying some recommendations presented in the 1992 volume. The update addresses two major areas: Determination of DNA profiles. The committee considers how laboratory errors (particularly false matches) can arise, how errors might be reduced, and how to take into account the fact that the error rate can never be reduced to zero. Interpretation of a finding that the DNA profile of a suspect or victim matches the evidence DNA. The committee addresses controversies in population genetics, exploring the problems that arise from the mixture of groups and subgroups in the American population and how this substructure can be accounted for in calculating frequencies. This volume examines statistical issues in interpreting frequencies as probabilities, including adjustments when a suspect is found through a database search. The committee includes a detailed discussion of what its recommendations would mean in the

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courtroom, with numerous case citations. By resolving several remaining issues in the evaluation of this increasingly important area of forensic evidence, this technical update will be important to forensic scientists and population geneticists--and helpful to attorneys, judges, and others who need to understand DNA and the law. Anyone working in laboratories and in the courts or anyone studying this issue should own this book.

### **Statistical reasoning in law and public policy**

A practical guide for determining the evidential value of physicochemical data. Microtraces of various materials (e.g. glass, paint, fibres, and petroleum products) are routinely subjected to physicochemical examination by forensic experts, whose role is to evaluate such physicochemical data in the context of the prosecution and defence propositions. Such examinations return various kinds of information, including quantitative data. From the forensic point of view, the most suitable way to evaluate evidence is the likelihood ratio. This book provides a collection of recent approaches to the determination of likelihood ratios and describes suitable software, with documentation and examples of their use in practice. The statistical computing and graphics software environment R, pre-computed Bayesian networks using Hugin Researcher and a new package, calcuLatoR, for the computation of likelihood ratios are all explored. Statistical Analysis in Forensic Science will provide an invaluable practical guide for forensic experts and practitioners,

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forensic statisticians, analytical chemists, and chemometricians. Key features include: Description of the physicochemical analysis of forensic trace evidence. Detailed description of likelihood ratio models for determining the evidential value of multivariate physicochemical data. Detailed description of methods, such as empirical cross-entropy plots, for assessing the performance of likelihood ratio-based methods for evidence evaluation. Routines written using the open-source R software, as well as Hugin Researcher and calcuLatoR. Practical examples and recommendations for the use of all these methods in practice.

### **The Use Of Statistics In Forensic Science**

Statistical methodology plays a key role in ensuring that DNA evidence is collected, interpreted, analyzed and presented correctly. With the recent advances in computer technology, this methodology is more complex than ever before. There are a growing number of books in the area but none are devoted to the computational analysis of evidence. This book presents the methodology of statistical DNA forensics with an emphasis on the use of computational techniques to analyze and interpret forensic evidence.

### **Statistical Science in the Courtroom**

## **Interpreting Evidence**

Introduction to Statistics for Forensic Scientists is an essential introduction to the subject, gently guiding the reader through the key statistical techniques used to evaluate various types of forensic evidence. Assuming only a modest mathematical background, the book uses real-life examples from the forensic science literature and forensic case-work to illustrate relevant statistical concepts and methods. Opening with a brief overview of the history and use of statistics within forensic science, the text then goes on to introduce statistical techniques commonly used to examine data obtained during laboratory experiments. There is a strong emphasis on the evaluation of scientific observation as evidence and modern Bayesian approaches to interpreting forensic data for the courts. The analysis of key forms of evidence are discussed throughout with a particular focus on DNA, fibres and glass. An invaluable introduction to the statistical interpretation of forensic evidence; this book will be invaluable for all undergraduates taking courses in forensic science. Introduction to the key statistical techniques used in the evaluation of forensic evidence Includes end of chapter exercises to enhance student understanding Numerous examples taken from forensic science to put the subject into context

## **Applying Statistics in the Courtroom**

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This publication is directed at both attorneys and statisticians to ensure they will work together successfully on the application of statistics in the law. Attorneys will learn how best to utilize the statistician's talents, while gaining an enriched understanding of the law relevant to audits, jury selection, discrimination, environmental hazards

### **JOURNAL OF ECONOMETRICS ANALYSIS OF DATA ON HEALTH 2**

This publication is directed at both attorneys and statisticians to ensure they will work together successfully on the application of statistics in the law. Attorneys will learn how best to utilize the statistician's talents, while gaining an enriched understanding of the law relevant to audits, jury selection, discrimination, environmental hazards

### **Applying Statistics in the Courtroom**

Designed to introduce law students, law teachers, practitioners, and judges to the basic ideas of mathematical probability and statistics as they have been applied in the law, the book consists of sections of exposition followed by real-world cases and case studies in which statistical data have played a role. Readers are asked to apply the theory to the facts, to calculate results (a pocket calculator is sufficient),

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and to explore legal issues raised by quantitative findings, while the author's own calculations and comments are given in the back of the book. The cases and case studies reflect a broad variety of legal subjects, including antidiscrimination, mass torts, taxation, school finance, identification evidence, preventive detention, handwriting disputes, voting, environmental protection, antitrust, and the death penalty. The first edition has been used in law, statistics, and social science courses, and in 1991 was selected by the University of Michigan Law Review as one of the important law books of the year. This second edition includes many new problems reflecting current developments in the law, including a new chapter on epidemiology.

### **Statistics and the Evaluation of Evidence for Forensic Scientists**

From the O. J. Simpson case to the CSI franchise, more and more of us are aware of and curious about the world of forensic science. Cynthia Holt takes that interest and directs it toward the literature that supports and defines the study of how evidence is discovered at a crime scene, interpreted in a lab, and used in a court of law. Her bibliography, grouped by type of material, covers topics such as ballistics, DNA analysis, entomology, expert witnessing, and facial imaging/reconstruction, as well as contributions from academic fields such as anthropology, linguistics, and

engineering.

## **Statistics and the Evaluation of Evidence for Forensic Scientists**

The Handbook of Probability presents an equal balance of theory and direct applications in a non-technical, yet comprehensive format so that researchers of various backgrounds can use the reference either as a primer for understanding basic probability theory or as a more advanced research tool for specific projects requiring a deeper understanding or application of probability. The wide-ranging applications of probability presented make it useful for researchers who need to make interdisciplinary connections in their work, as well as professors who teach a range of students (social sciences, education, business, behavioral sciences, etc.) and need to bring probability into greater, concrete perspective for these students.

### **Handbook of Probability**

The central question of this book is when and how does indigeneity in its various iterations – cultural, social, political, economic, even genetic – matter in a legal sense? Indigeneity in the Courtroom focuses on the legal deployment of indigenous difference in US and Canadian courts in the late 20th and early 21st centuries.

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Through ethnographic and historical research, Hamilton traces dimensions of indigeneity through close readings of four legal cases, each of which raises important questions about law, culture, and the production of difference. She looks at the realm of law, seeking to understand how indigeneity is legally produced and to apprehend its broader political and economic implications.

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