

# FORENSIG SCIENCE



Basic principles of forensic science for an introductory overview course.

#### OVERVIEW

#### Key Concepts of Forensic Science

- Application of a scientific method, tool, or technique. to aid an investigation or judicial proceeding
- Used to support or refute hypotheses about how an event occurred.
- Results integrated into the investigation, part of a Langer Morey
- Many subdisciptions





#### Characteristics of Forensic Data and Results

- Specific and complete, including caveats or limitations.
- Reproducible; another forensic scientist provided with the same evidence and information should obtain the same results.
- Fabrifiable: cesults must be stated such that they can be tested for accuracy and completeness. A specific DNA profile or a specific blood alcohol measurement is falsifiable because the results can be confirmed by scientific testing.
- Relevant to the case at hand. The analysis of a bloodstain sample would be done to obtain the DNA profile; cholesterol level in the blood is irrelevant

#### Selected Historical Figures

#### Alphonse Bertillon (1853–1914; French)

- Used measurements of physical features. for identification called anthropometry or Bertillonage, Replaced by fingerprinting
- · Francis Galton (1822-1911; English)
- Fingerprints.
- Alexander Gettler (1883–1968; American)
- Forensic toxicology, Performed chemical analysis for the New York Office of Chief Medical Examiner (OCME)
- Calvin Goddard (1891–1955; American)
- Comparison microscopy and firearms
- Hams Gross (1847–1915; Austrian) - Coined the term criminalistics.

- Alec Jeffreys (1950-; English).
  - Developed early DNA testing methods
  - First to use DNA typing in a criminal matter (Collin Pitchfork, case):
- Paul Kirk (1902–1970; American)
- Generalist and educator
- Edmond Locard (1877-1966; French)
- Trace evidence, Opened an early forensic Safetora torre
- Credited for Locard's Exchange Principle, paraphrased as "every contact leaves a trace"
- Charles Norrés (1867–1935; American)
- Physician, Early head of the OCME
- Mathico Orfila (1787–1853; Spanish)
- Worked in Italy and France, Forensic
- toxicologist and educator. Utilized the Marsh test for arsenic in the
- LaFarge case. Bernard Spilsbury (1877-1947; English)
- Physician and forensic pathologist

#### Blas and Human Error

- Bias can cause results of a forensic analysis to be influenced by factors other than evidence and tenting results.
- Usually unintended and unconscious
- Can be caused by contextual information irrelevant
- Confirmation bias can occur if a specific result is anticipated or espected
- Prosecutorial bias/defense bias favors a specific side in the dispute

#### Interface with the US Legal System

#### **US legal system**

- Legal system designed to settle disputes.
- Adversarial: based on comparing competing A PROPERTY OF THE REAL PROPERTY.
- Criminal cases
  - Accused/defendant vs. government (local/state/ flexiberrall)
  - Prosecution vs. defense
- Burden of proof on prosecution
- Standard of proof: beyond a reasonable doubt Civil cases
  - Individual vs. individual, corporations, companies, etc.
- Plaintiff vs. defense

#### Relies on precedent-rulings by previous courts

Burden of proof on prosecution

 Jurisdiction: the entity empowered to bear a case local (town, city, county), state, and federal

Standard of proof: preponderance of evidence

Decision rendered by trier-of-fact (judge or jury)

#### US Rules of Evidence

- Process to allow evidence to be presented in a legal. proceeding
- Evidence is admissible if it meets admissibility standards.
- Applies to forensic pesults and data
- Admissibility standards vary across jurisdictions.
- Figure standard
- Informally called general acceptance independently standard
- 1923 muliner
- Decision to reject admission of polygraph (lie-
- Court ruled that to admit new type of test, it must have been accepted within that scientific discipline.
- Federal Rules of Evidence.
  - Congressionally enacted 1975
  - Frequently updated
  - Applies to federal jurisdictions.
- Adopted by other jurisdictions.
- Guidelines for expert testimony
- Daubert standard
  - Informativ called gatekeeper standard
  - 1993 ruling in civil case
  - Trial judge to make admissibility decision:

  - judge as gatekeeper Ruling provided guidelines for making this decision
  - Included general acceptance, validation of method, standards, limitations, and potential entropy of the
- Part of Daubert trilogy of cases.
- "flodner diecission»
- Second of Daubert trillogy
- 1997 ruling in civil case.
- Scientific evidence must be directly relevant
- Kimmho docision.
- Third case of Daubert trilogy
- 1999 culing in civil case
- Extended definition of expert beyond traditional action ones.

#### Quality assurance/quality control (QA/QC)

Practices and procedures used to ensure that forensic data are relevant and transverthy

- Cradle to grave process—from evidence creation to final disposition
- Forensic laboratories can be accredited
- Analysts may be certified in some disciplines
- Methods executed by standard operating procedure.
- Traceability: ability to trace result directly to nationally internationally accepted standard Control samples analyzed with evidence
- Results reviewed by colleagues (peer review)
- Data reviewed and confirmed

#### Laboratory accreditation



- Implement corrective action

- Identify issues

- Prevent future accurrences





Testimony

Sampling

Analyst certification

## **Forensic Science Study Guide Answers**

**George Murphy** 

#### **Forensic Science Study Guide Answers:**

**Study Guide to Digital Forensics** Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com Forensic Scientist Trainee National Learning Corporation, 2019-02 The Forensic Scientist Trainee Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of guestions and answers in the areas that will likely be covered on your upcoming exam including but not limited to principles of biology biochemistry genetics and molecular biology general laboratory principles and practices evaluating information and evidence record keeping and other related areas GRE Verbal Reasoning Supreme: Study Guide with Practice Questions Vibrant Publishers, 2022-12-10 This book will give you access to 575 Verbal Reasoning Questions 3 Practice Tests Comprehensive Solutions Expert and Effective Strategies Overview of the GRE and Verbal Reasoning section Detailed information on Reading Comprehension Text Completion and Sentence Equivalence Questions Stress Management ebook online 6 month and 8 week study plans online GRE Verbal Reasoning Supreme Study Guide With Practice Questions is the only comprehensive guide you will need to be fully prepared for the Verbal Reasoning section of the GRE The book is a compilation of 575 Verbal Reasoning questions segregated into Reading Comprehension Text Completion and Sentence Equivalence For you to understand the pattern of questions there are separate chapters giving a rundown of the Verbal Reasoning section and the three types of questions You will be able to get a firm grip on how to answer the questions with the help of expert strategies given in the book The book goes a step ahead to even give detailed solutions to questions instead of just stating the answers and leaving you scratching your head When you have practiced all types of questions you will be ready to test yourself with 3 Verbal practice tests that are provided in the book Additional Resources This book will give you access to a Stress Management ebook with a 6 month and an 8 week study plan that will help you manage your stress while preparing for the GRE About Test Prep Series The focus of the Test Prep Series is to make test preparation streamlined and fruitful for competitive exam aspirants Students preparing for the entrance exams can now access the most comprehensive series of prep guides for GRE GMAT ACT and SAT preparation All the books in this series are thoroughly researched frequently updated and packed with relevant content that has been prepared by authors with more than a decade of experience in the field The Gospel of Education Martin Zschoche, 2021-01-02 Re explore teaching from

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Science in Court Michael Freeman, Helen Reece, 2019-05-23 First published in 1998 this volume contains DNA typing essays from leading thinkers on both sides of the Atlantic on the relationship between law and science Science plays an ever increasing part in the development of legislation and the adjudication of cases Its limitations and its value are explored in these essays which discuss issues of methodology and of evidence Amongst areas covered are silicone breast implants the rape trauma syndrome the environment inventions and Bayesianism Food Tech and Processing Solutions Ambar Achari, 2025-01-07 Food Tech and Processing Solutions delves into the integration of food science and engineering to enhance food selection preservation packaging and utilization This comprehensive guide emphasizes the importance of modern technology in the food processing industry We provide a rigorous scientific explanation of various food processing methods while highlighting the role of the industry in society Our book covers the physical properties of food materials fluid flow heat and mass transfer principles reaction kinetics centrifugation thermal processing spoilage prevention crystallization dissolution and refrigeration Primarily intended as a textbook for college and university courses the latest edition includes current trends and advancements in the field We begin with an introduction to the properties of food materials and explore fundamental scientific processes like centrifugation freezing and evaporation Additionally we focus on food packaging cleaning disinfection and sanitation This book serves as a detailed guide for students and professionals offering insights into food processing technology and its applications Student Study Guide for Foundations of Psychological Testing Thomas A. Stetz, Leslie A. Miller, Robert L. Lovler, 2015-07-30 The Student Study Guide for Foundations of Psychological Testing has 15 chapters corresponding to those in the main text and follows a consistent structure for quick and easy access to key information To help students understand and apply material related to psychological testing the guide offers overviews learning objectives outlines key concepts crossword puzzles tips by learning objective additional exercises additional learning activities practice questions and answer keys Save your students money Bundle the guide with the main text Use Bundle ISBN 978 1 5063 2208 7 The main text Foundations of Psychological Testing A Practical Approach Fifth Edition offers a clear introduction to the basics of psychological testing as well as to psychometrics and statistics The practical book includes discussion of foundational concepts and issues using real life examples and situations students will easily recognize relate to and find interesting A variety of pedagogical tools further the conceptual understanding needed for effective use of tests and test scores Now aligned with the 2014 Standards for Educational and Psychological Testing the Fifth Edition offers new and expanded content throughout

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