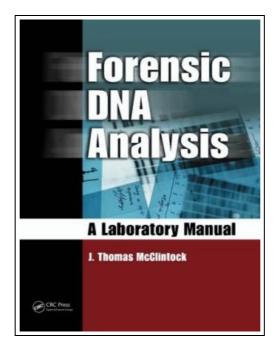
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Taylor Francis Inc, United States, 2008. Paperback. Condition: New. Lab Manual. Language: English. Brand New Book ****** Print on Demand ******.In its short but active history, the use of DNA typing has revolutionized criminal investigations. It is almost inconceivable to bring a case to trial without positive identification through what is now our most accurate means. Proficiency with the methodology, principles, and interpretation of DNA evidence is crucial for today s criminalist. An introductory text, Forensic DNA Analysis: A Laboratory Manual presents a contextual history and overview of the science and use of DNA typing. Logically organized, with clear, concise language, this manual provides a fundamental understanding of forensic DNA analysis and a thorough background in the molecular techniques used to determine an individual s identity. Students are provided with a sound working knowledge of the investigative methodology, scientific principles, and the analysis and interpretation of the resulting data. After laying a foundation on the rules of the laboratory, the basic scientific principles, and the types of biological materials, such as hair, blood, and bone, this practical, hands-on manual provides 12 exercises outlining techniques commonly used in DNA typing. Designed to be performed in a common laboratory, the experiments cover DNA extraction, concentration, and assessment; DNA analysis using restriction fragment length polymorphisms; polymerase chain reaction and PCR-based typing tests; short tandem repeat analysis; and mitochondrial DNA analysis. Many of the procedures described have been adapted from methods used in federal, state, and private forensic laboratories and are suitable to a wide range of applications. There is also an extensive glossary for DNA typing terminology and basic terms used in molecular biology. Instilling confidence, analytical clarity, and a sense of curiosity, this comprehensive introduction is the perfect tool for grasping the techniques and applications of forensic DN



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