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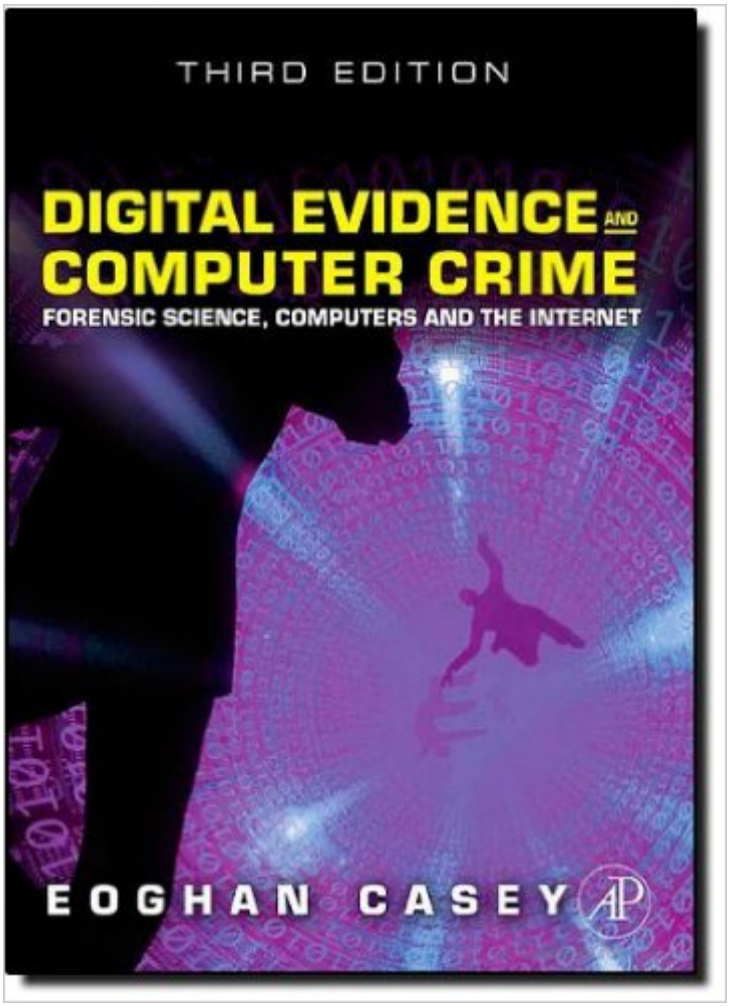
# Digital Evidence And Computer Crime: Forensic Science, Computers And The Internet, 3rd Edition

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## Synopsis

Digital Evidence and Computer Crime, Third Edition provides the knowledge necessary to uncover and use digital evidence effectively in any kind of investigation. The widely-adopted first and second editions introduced thousands of students to this field and helped them deal with digital evidence. This completely updated edition provides the introductory materials that new students require, and also expands on the material presented in previous editions to help students develop these skills. The textbook teaches how computer networks function, how they can be involved in crimes, and how they can be used as a source of evidence. Additionally, this third edition includes updated chapters dedicated to networked Windows, Unix, and Macintosh computers, and Personal Digital Assistants.Ancillary materials include an Instructor’s Manual and PowerPoint slides.Named The 2011 Best Digital Forensics Book by InfoSec ReviewsProvides a thorough explanation of how computers & networks function, how they can be involved in crimes, and how they can be used as evidence Features coverage of the abuse of computer networks and privacy and security issues on computer networks

## Book Information

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## Customer Reviews

Required for a graduate level digital forensics course. I had taken another one before in the Information Assurance major and that class used the Bill Nelson textbook. While Nelson’s book delivered more lab exercises for actually harvesting digital data, Casey’s book focuses more on the elements inherent in the field of digital forensics.Chain of custody and legal procedure are critical to success if digital "evidence" is to be accepted in court. The TV shows where the detective looks at a

suspect's cell phone and finds a clue immediately is not proper procedure. Accessing a suspect's computer as shown on TV also does not happen since a bit by bit forensic copy must be made first and all operations occur using the copy thereby preserving the original.There have been strides made in laws regarding digital evidence, however, judges deciding cases involving digital evidence also need to be equipped to comprehend the significance of data on digital devices and how it all works. One flaming example of a judge out of her depth is Judge Lucy Koh during the Samsung tablet v. Apple iPad case. While holding up the two tablets, Koh asked Samsung attorneys to identify which table was Samsung. The patent infringement lawsuit had little to do with the exterior hard case of the tablets and everything to do with its operating system and how data was processed. Casey makes it clear that digital forensics is more about the appropriate processing & handling of digital device evidence, according to venue, and less about whether there is a treasure trove of data clues staring police detectives/federal agents in the face like tempting fruit on a forbidden tree.

When it comes to a physical crime scene and the resulting forensics, investigators can ascertain that a crime took place and gather the necessary evidence. When it comes to digital crime, the evidence is often at the byte level, deep in the magnetics of digital media, initially invisible from the human eye. That is just one of the challenges of digital forensics, where it is easy to destroy crucial evidence, and often difficult to preserve correctly.For those looking for an authoritative guide, Digital Evidence and Computer Crime is an invaluable book that can be used to ensure that any digital investigation is done in a formal manner, that can ultimately be used to determine what happened, and if needed, used as evidence in court.Written by Eoghan Casey, a leader in the field of digital forensics, in collaboration with 10 other experts, the book's 24 chapters and nearly 800 pages provide an all-encompassing reference. Every relevant topic in digital forensics is dealt with in this extraordinary book. Its breadth makes it relevant to an extremely large reading audience: system and security administrators, incident responders, forensic analysts, law enforcement, lawyers and more.In the introduction, Casey writes that one of the challenges of digital forensics is that the fundamental aspects of the field are still in development. Be it the terminology, tools, definitions, standards, ethics and more, there is a lot of debate amongst professionals about these areas. One of the book's goals is to assist the reader in tackling these areas and to advance the field. To that end, it achieves its goals and more.Chapter 1 is appropriately titled Foundation of Digital Forensics, and provides a fantastic overview and introduction to the topic.

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