

# Optical Document Security

## Second Edition



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Rudolf L. van Renesse  
Editor

# Optical Document Security

**John T. Thomas, Andrew Malloy**

## **Optical Document Security:**

Optical Document Security Rudolf L. Van Renesse, 2005-01 Now in its third edition Optical Document Security has transformed from a compilation of related topics on the subject to a comprehensive and cohesive treatment of all aspects of optical document security written by a leading expert with decades of experience This completely revised and updated edition brings you to the cutting edge of this field with new coverage of paper based security printed security security evaluation and features and biometrics

*Optical Document Security: Measurement, Characterization and Visualization*

Mikael Lindstrand, 2019-04-12 Documents of high value such as passports tickets and banknotes facilitate means for authentication Authentication processes aim at mitigating counterfeit passable products The arsenal of security features in the business is abundant but an effective and reliable counterfeit mitigating system need an architectural approach rather than either relying on one feature only or vaguely motivated aggregated security features Optically variable device OVD is a concept in the industry including costefficient and unique authentication functionality OVD based features may serve as the main counterfeit mitigating functionality as in banknotes For higher value documents such as passports security architectural design may include multimodal combined features in which OVD is one characterizing and necessary aspect Thereby a successful counterfeit need not only to simulate hack electronic based security features such as radio frequency based identifier combined with public key infrastructure based cryptography PKI but also simulate OVD functionality Combined feature authentication based e g on PKI and OVD that relies on principally different physics and hence technology competences is of especial interest Well architected and implemented such multimodal counterfeit mitigating systems are effective to the degree that producing passable products requiring more resources than potentially illegitimately gained by the counterfeiter Irrespective of level of ambition and efforts spent on counterfeit mitigation OVD remains critically important as a security concept One feature of OVD is the possibility to include a human inspector in the authentication procedure Including such man in the loop reduces the risk of successful and unnoticed simulations of algorithms such as PKI One challenge of OVD is a lack of standards or even measurements characterizing the significant aspects influencing a human based inspection This thesis introduces a system able to measure characterize and visualize the significant aspects influencing a human based inspection of OVD features The contribution includes the development of a multidimensional and high dynamic range HDR color measurement system of spatial and angular resolution The capturing of HDR images is particularly demanding for certain high contrast OVD features and require innovative algorithms to achieve the necessary high contrast sensitivity function of the imaging sensor Representing the significant aspects influencing a human based inspection of OVD requires a considerable amount of data The development of an appropriate information protocol is therefore of importance to facilitate further analysis data processing and visualization The information protocol transforming the measurement data into characterizing information is a second significant achievement of the presented work in this

thesis To prove the applicability measurements visualizations and statistically based analyses have been developed for a selection of previously unsolved problems as defined by senior scientists and representatives of central banks Characterization and measurements of the degree to which OVD deteriorate with circulation is one such problem One particular benefit of the implemented suggested solution is the characterization and measurement aim at aspects influencing human based first line inspection The principally difference in the problems treated indicates the generality of the system which is a third significant project achievement The system developed achieves the accuracy and precision including a resolution dynamic range and contrast sensitivity function required for a technology independent standard protocol of optical document security OVDs These abilities facilitate the definition and verification of program of requirements for the development of new security documents Adding also the capability of interlinking first second and third line inspection based characterizations may prove a particular valuable combination which is a fourth significant project achievement The information content Entropy of characterized OVDs and OVD production limitations in combination opens for OVD based novel applications of physically unclonable functions PUF This is of significance as it would generalize the established OVDs to facilitate multimodal verification including PUF verification The OVDs would thereby transform into a combined PUF first line inspection facilitating security feature

Optical Document Security in High Volume Office Environments Joost van Beusekom,2010

**Optical Document Security** Rudolf L. Van Renesse,1994-01-01

**Optical Document Security II**

Rudolf L. Van Renesse,Reconnaissance International,Reconnaissance International Ltd,2010

**Optical Document Security** Reconnaissance International Ltd,2008

*Optical Document Security* Rudolf Van Renesse,2002-11-12 SPIE Professional Development materials provide viewers with technical guidance in a variety of fields

**Optical Document Security** Rudolf L. Van Renesse,1998 This edition on optical document security has been revised and updated to include three new chapters on security design of valuable documents and products smart card security and biometrics The book should be of interest to engineers and both technical and non technical managers using secure documents or manufacturing security devices

*Optical Security and Counterfeit Deterrence Techniques* ,2006

**The History of Information Security** Karl

Maria Michael de Leeuw,Jan Bergstra,2007-08-28 Information Security is usually achieved through a mix of technical

organizational and legal measures These may include the application of cryptography the hierarchical modeling of organizations in order to assure confidentiality or the distribution of accountability and responsibility by law among interested parties The history of Information Security reaches back to ancient times and starts with the emergence of bureaucracy in administration and warfare Some aspects such as the interception of encrypted messages during World War II have attracted huge attention whereas other aspects have remained largely uncovered There has never been any effort to write a comprehensive history This is most unfortunate because Information Security should be perceived as a set of communicating vessels where technical innovations can make existing legal or organisational frame works obsolete and a

breakdown of political authority may cause an exclusive reliance on technical means This book is intended as a first field survey It consists of twenty eight contributions written by experts in such diverse fields as computer science law or history and political science dealing with episodes organisations and technical developments that may be considered to be exemplary or have played a key role in the development of this field These include the emergence of cryptology as a discipline during the Renaissance the Black Chambers in 18th century Europe the breaking of German military codes during World War II the histories of the NSA and its Soviet counterparts and contemporary cryptology Other subjects are computer security standards viruses and worms on the Internet computer transparency and free software computer crime export regulations for encryption software and the privacy debate Interdisciplinary coverage of the history Information Security Written by top experts in law history computer and information science First comprehensive work in Information Security

**Optical Security and Counterfeit Deterrence Techniques** ,1998 *Forensic Investigation of Stolen-Recovered and Other Crime-Related Vehicles* Eric Stauffer,Monica Bonfanti,2006-10-11 Forensic Investigation of Stolen Recovered and Other Crime Related Vehicles provides unique and detailed insights into the investigations of one of the most common crime scenes in the world In addition to a thorough treatment of auto theft the book covers vehicles involved in other forms of crime dealing extensively with the various procedures and dynamics of evidence as it might be left in any crime scene An impressive collection of expert contributors covers a wide variety of subjects including chapters on vehicle identification examination of burned vehicles vehicles recovered from under water vehicles involved in terrorism vehicle tracking alarms anti theft systems steering columns and ignition locks The book also covers such topics as victim and witness interviews public and private auto theft investigations detection of trace evidence and chemical traces vehicle search techniques analysis of automotive fluids vehicle registration document examination and vehicle crime mapping It is the ultimate reference guide for any auto theft investigator crime scene technician criminalist police investigator criminologist or insurance adjuster Extensively researched and exceptionally well written by internationally recognized experts in auto theft investigation and forensic science All the principles explained in the text are well illustrated and demonstrated with more than 450 black and white and about 100 full color illustrations many directly from real cases Serves as both a valuable reference guide to the professional and an effective teaching tool for the forensic science student

**Optical Engineering** ,1994 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology *Micromanufacturing and Nanotechnology* Nitaigour P. Mahalik,2006-01-16 Micromanufacturing and Nanotechnology is an emerging technological infrastructure and process that involves manufacturing of products and systems at the micro and nano scale levels Development of micro and nano scale products and systems are underway due to the reason that they are faster accurate and less expensive Moreover the basic functional units of such systems possesses remarkable mechanical electronic and chemical properties compared to the macro

scale counterparts Since this infrastructure has already become the preferred choice for the design and development of next generation products and systems it is now necessary to disseminate the conceptual and practical phenomenological know how in a broader context This book incorporates a selection of research and development papers Its scope is the history and background underlyning design methodology application domains and recent developments

**Optical Sensing for Public Safety, Health, and Security** Maksymilian Pluta,2001

**Microwave Journal** ,1994

Security, Steganography, and Watermarking of Multimedia Contents ,2004

Display Technologies and Applications for Defense, Security, and Avionics

John T. Thomas,Andrew Malloy,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

**Fundamentals of Multiaccess Optical Fiber Networks** Denis J. G.

Mestdagh,1995 It strikes an excellent balance between underlying theory and principles rigorous derivation of design formulae and description of practical applications ranging from device to system and network performances and properties International Journal of Optoelectronics I would recommend it as a reference for those seeking to gain a basic understanding of fiber optic access networks and for technical managers who want an up to date overview of advances in this technology

Laser Focus World     **Holographic Materials** ,2001

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## **Table of Contents Optical Document Security**

1. Understanding the eBook Optical Document Security
  - The Rise of Digital Reading Optical Document Security
  - Advantages of eBooks Over Traditional Books
2. Identifying Optical Document Security
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Optical Document Security
  - User-Friendly Interface
4. Exploring eBook Recommendations from Optical Document Security
  - Personalized Recommendations

- Optical Document Security User Reviews and Ratings
- Optical Document Security and Bestseller Lists

5. Accessing Optical Document Security Free and Paid eBooks

- Optical Document Security Public Domain eBooks
- Optical Document Security eBook Subscription Services
- Optical Document Security Budget-Friendly Options

6. Navigating Optical Document Security eBook Formats

- ePUB, PDF, MOBI, and More
- Optical Document Security Compatibility with Devices
- Optical Document Security Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Optical Document Security
- Highlighting and Note-Taking Optical Document Security
- Interactive Elements Optical Document Security

8. Staying Engaged with Optical Document Security

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Optical Document Security

9. Balancing eBooks and Physical Books Optical Document Security

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Optical Document Security

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Optical Document Security

- Setting Reading Goals Optical Document Security
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Optical Document Security

- Fact-Checking eBook Content of Optical Document Security

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web titanic was based on a revised version of the same design and was given the number 401 dimensions and layout starboard view of titanic titanic was 882 feet 9 inches 269 06 m long with a maximum breadth of 92 feet 6 inches 28 19 m her total height measured from the base of the keel to the top of the bridge was 104 feet 32 m

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