Optical Document Security Third Edition

Electromagnetic and Photonic Simulation for the Beginner: Finite-Difference Frequency-Domain in MATLAB®
Guide to Information Sources in the Forensic Sciences
Optical Document Security II
Bibliography, with Abstracts, of AFCRL Publications from 1 October to 31 December 1972
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Electromagnetic and Photonic Simulation for the Beginner: Finite-Difference Frequency-Domain in MATLAB®
DIANE Publishing
Security Vision Third Edition.
Guide to Information Sources in the Forensic Sciences
Artech House
Thanks to the O. J. Simpson case, not to mention the overwhelming success of the CSI franchise, the general public is both aware of and curious about the world of forensics, i.e., the investigation and establisment of facts or evidence in a court of law. The forensic sciences incorporate the application of principles and methods from a cadre of specialized scientific and technical disciplines, to a vast array of criminal and civil legal questions. To this end, Cynthia Holt has compiled a comprehensive bibliography of resources recommended to support research in the forensic sciences and its various subspecialties. Holt's introductory chapter clarifies the distinctions between the major forensic sciences specialties; in addition, it provides an overview of the hierarchy of various classification systems for the forensics literature. The bibliography itself is

grouped by type of material (e.g., journals, abstracts and indexes, books). Topics include ballistics, DNA analysis, etymology, expert witnessing, and facial imaging/reconstruction, as well as contributions from academic fields such as anthropology, linguistics and engineering. Tools are primarily in English, with a few non-English titles included for reasons of significance.

With a preface by Professor Moses S. Schanfield, Chair of the Department of Forensic Sciences at George Washington University.

Optical Document Security II Artech House Publishers

Security Solutions Third Edition.

Bibliography, with Abstracts, of AFCRL Publications from 1 October to 31 December 1972 Prentice Hall

Now that there's software in everything, how can you make anything secure? Understand how to engineer dependable systems with this newly updated classic In Security Engineering: A Guide to Building Dependable Distributed Systems, Third Edition Cambridge University professor Ross Anderson updates his classic textbook and teaches readers how to design,

implement, and test systems to withstand both error and attack. This book became a best-seller in 2001 and helped establish the discipline of security engineering. By the second edition in 2008, underground dark markets had let the bad guys specialize and scale up; attacks were increasingly on users rather than on technology. The book repeated its success by showing how security engineers can focus on usability. Now the third edition brings it up to date for 2020. As people now go online from phones more than laptops, most servers are in the cloud, online advertising drives the Internet and social networks have taken over much human interaction, many patterns of crime and abuse are the same, but the methods have evolved. Ross Anderson explores what security engineering means in 2020, including: How the basic elements of cryptography, protocols, and access control translate to the new world of phones, cloud services, social media and the Internet of Things Who the attackers are – from nation states and business competitors through criminal gangs to stalkers and playground bullies What they do – from phishing and carding

through SIM swapping and software exploits to DDoS and fake news Security psychology, from privacy through ease-of-use to deception The economics of security and dependability – why companies build vulnerable systems and governments look the other way How dozens of industries went online – well or badly How to manage security and safety engineering in a world of agile development – from reliability engineering to DevSecOps The third edition of Security Engineering ends with a grand challenge: sustainable security. As we build ever more software and connectivity into safety-critical durable goods like cars and medical devices, how do we design systems we can maintain and defend for decades? Or will everything in the world need monthly software upgrades, and become unsafe once they stop?

Company Profiles: Document Security Systems, Inc John Wiley & Sons

"Since the fourth edition of this book was published, the field has seen continued innovations and improvements . In this new edition, we try to capture these changes while maintaining a broad and comprehensive coverage of

the entire field. There have been a number of refinements to improve pedagogy and user-friendliness, updated references, and mention of recent security incidents, along with a number of more substantive changes throughout the book"--

Optical Document Security John Wiley & Sons

Donated by Criminal Justice Review In honor of Dr. Richard J. Terrill, Professor of Criminal Justice, Georgia State University.

The Hologram Artech House

This volume constitutes the proceedings of the Third European Symposium on Research in Computer Security, held in Brighton, UK in November 1994. The 26 papers presented in the book in revised versions were carefully selected from a total of 79 submissions; they cover many current aspects of computer security research and advanced applications. The papers are grouped in sections on high security assurance software, key management, authentication , digital payment, distributed systems, access control, databases, and measures.

Document Security Pearson Educational

This newly revised and updated edition offers a current and complete

introduction to the analysis and design of Electro-Optical (EO) imaging systems. The Third Edition provides numerous updates and several new chapters including those covering Pilotage, Infrared Search and Track, and Simplified Target Acquisition Model. The principles and components of the Linear Shift-Invariant (LSI) infrared and electro-optical systems are detailed in full and help you to combine this approach with calculus and domain transformations to achieve a successful imaging system analysis. Ultimately, the steps described in this book lead to results in quantitative characterizations of performance metrics such as modulation transfer functions, minimum resolvable temperature difference, minimum resolvable contrast, and probability of object discrimination. The book includes an introduction to two-dimensional functions and mathematics which can be used to describe image transfer characteristics and imaging system components. You also learn diffraction concepts of coherent and incoherent imaging systems which show you the fundamental limits of their performance. By using the evaluation procedures contained in this desktop

reference, you become capable of predicting both sensor test and field performance and quantifying the effects of component variations. The book contains over 800 time-saving equations and includes numerous analyses and designs throughout. It also includes a reference link to special website prepared by the authors that augments the book in the classroom and serves as an additional resource for practicing engineers. With its comprehensive coverage and practical approach, this is a strong resource for engineers needing a bench reference for sensor and basic scenario performance calculations. Numerous analyses and designs are given throughout the text. It is also an excellent text for upper-level students with an interest in electronic imaging systems.

Forensic Investigation of Stolen-Recovered and Other Crime-Related Vehicles
Springer Science & Business Media
A guide to light-based networks. Advantages of optical nets include greater bandwidth and speed. Covers architecture, design, and monitoring/management issues.
Review
Linköping University Electronic Press
This book

presents for the first time the theory of the moiré phenomenon between aperiodic or random layers. The book provides a full general purpose and application-independent exposition of the subject. Throughout the whole text the book favours a pictorial, intuitive approach which is supported by mathematics, and the discussion is accompanied by a large number of figures and illustrative examples.

Display Technologies and Applications for Defense, Security, and Avionics

Artech House

In the forthcoming years, citizens of many countries will be provided with electronic identity cards. eID solutions may not only be used for passports, but also for communication with government authorities or local administrations, as well as for secure personal identification and access control in e-business. Further eID applications will be implemented in the healthcare sector. For some of these solutions we will not need a physical data carrier at all. The Handbook of eID Security is the first source presenting a comprehensive overview of this strongly discussed topic. It provides profound information on the following questions: - Which are the

latest concepts, technical approaches, applications and trends in the field of eID? - Which areas of application are covered by the different eID concepts? - Which security mechanisms are used, for what reasons, and how can their reliability be ensured? - How will the security of personal data be guaranteed? This book is a perfect source of information for all persons working in industry, banking, healthcare, research institutes, administrations and public authorities: - who are involved in the development of eID application concepts, technical solutions, and of devices used for transfer and read out data to and from eIDs, - who have or will have to do with eID applications in their daily work, and - who participate in informing and discussing about the security and transparency of eID solutions.

Optical Document Security

Libraries Unlimited

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-architectured 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 characterizati ons 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. Monthly Report on General Business and Agricultural Conditions in Federal Reserve District No. 8

SPIE-International Society for Optical Engineering 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. *Computer Security* Bookboon SPIE Professional Development materials provide viewers with technical guidance in a variety of fields. **Fundamentals of Media Security** Artech House 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.

Security Vision Third Edition Artech House 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

Security Solutions Third Edition

Springer Science & Business Media

This landmark work – considered by many in the field to be THE reference on fiber-optic gyroscopes (FOGs) – provides you with a complete and thorough system analysis of the FOG and remains unmatched by any other single source. Now in its third edition, this fully updated and authoritative book: Gives you access to all the details you need to know about optics, single-mode fiber optics, and integrated optics to fully grasp the design rules of the fiber-optic gyroscope Helps you understand

the concepts that have emerged as the preferred solutions to obtain a practical device Guides you through the advances that have occurred in the last seven years since the previous edition was published and how they are implemented in the current FOGs Drawing on 45 years of research and development, The Fiber-Optic Gyroscope, Third Edition, features new content on the relationship between white-noise power spectral density and random walk; Allan variance; testing with optical coherence domain polarimetry; a new simple mechanical model of the thermally induced stresses and related strains in the sensing coil; simple viewing of the reduction of the Shupe effect with symmetrical windings; and comments about dispersion and birefringence dispersion. The book contains over 350 illustrations (including 70 new figures) and many helpful appendixes, and gives you everything you need to understand the fiber gyro. The author is a leading expert in this field and is one of the early pioneers of the practical optical architecture and signal processing technique that is universally used in today’s FOGs. This is a must-have reference for anyone

working with FOGs, from students and academics learning about the device, to optoelectronics engineers and professionals needing to stay abreast of the current concepts and recent advances. *Signal Processing and Performance Analysis for Imaging Systems* John Wiley & Sons In July 2008, the Dept. of State (State) began issuing passport cards as a lower-cost alternative to passports for U.S. citizens to meet Western Hemisphere Travel requirements. In Oct. 2008, State began issuing the second generation border crossing card (BCC) based on the architecture of the passport card. This report examined the effectiveness of the physical and electronic security features of the passport card and the BCC. The report addresses: (1) How effectively State¿s development process ¿ incl. testing and evaluation ¿ for the passport card and second generation BCC mitigates the risk of fraudulent use? (2) How are U.S. Customs and Border Protection officers using the cards¿ security features to prevent fraudulent use at land ports of entry? Illus. Optical Document Security: Measurement, Characterization and Visualization Charles C

Thomas Pub Limited Photonic structures occurring in biological tissues such as butterfly wings, beetle elytra or fish scales are responsible for a broad range of optical effects including iridescence, narrow-band reflection, large solid-angle scattering, polarization effects, additive color mixing, fluid-induced color changes, controlled fluorescence. Studies have provided understanding of the underlying optical mechanisms and the biological functions as well as inspiration for the design and development of novel photonic devices, also called bioinspiration. In this forward-thinking book, the research related to photonic structures in natural organisms is reviewed with a main foPhotonic structures occurring in biological tissues such as butterfly wings, beetle elytra, or fish scales are responsible for a broad range of optical effects including iridescence, narrow band reflection, large solid-angle scattering, polarization, additive color mixing, fluid induced color changes, and controlled fluorescence. This book reviews research of biological photonic devices in accordance with the

fundamental aspects of physical optics and environmental biology. It provides readers with an understanding of numerical modelling based on morphological and optical characterizations as well as the quantitative treatment of color vision. This forward-thinking book ties these concepts to the design and synthesis of bioinspired photonic devices and opens the door to the applications of nature's lessons in the technical world. This resource introduces a methodology for working with and utilizing bioinspiration. It includes the experimental and numerical tools necessary for the characterization and simulation of photonic structures and uses original concepts as examples, with a focus on bioinspired hygrochromatic materials. Professionals are brought up to speed on a variety of fabrication techniques and methods of synthesis all following a straightforward bottom-up or top-down approach. The reader will gain an understanding of the capability of bioinspiration to meet human needs. This book's explanation of how natural photonics structures behave as efficient solar absorbers or thermal management devices makes it a useful resource for

technical professionals in the field of energy and environment, and the concepts presented in this book also have applications in the designs of optical coatings, sensors, and light sources.

The Theory of the Moiré Phenomenon

John Wiley & Sons

Today, more than 80% of the data transmitted over networks and archived on our computers, tablets, cell phones or clouds is multimedia data – images, videos, audio, 3D data. The applications of this data range from video games to healthcare, and include computer-aided design, video surveillance and biometrics. It is becoming increasingly urgent to secure this data, not only during transmission and archiving, but also during its retrieval and use. Indeed, in today's "all-digital" world, it is becoming ever-easier to copy data, view it unrightfully, steal it or falsify it. Multimedia Security 2 analyzes issues relating to biometrics, protection, integrity and encryption of multimedia data. It also covers aspects such as crypto-compression of images and videos, homomorphic encryption, data hiding in the encrypted domain and secret sharing.

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