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## Homeland Security Technologies for the 21st Century Springer Nature

Going beyond standard introductory texts, *Mathematical Optics: Classical, Quantum, and Computational Methods* brings together many new mathematical techniques from optical science and engineering research. Profusely illustrated, the book makes the material accessible to students and newcomers to the field. Divided into six parts, the text presents state-of-the-art mathematical methods and applications in classical optics, quantum optics, and image processing. Part I describes the use of phase space concepts to characterize optical beams and the application of dynamic programming in optical waveguides. Part II explores solutions to paraxial, linear, and nonlinear wave equations. Part III discusses cutting-edge areas in transformation optics (such as invisibility cloaks) and computational plasmonics. Part IV uses Lorentz groups, dihedral group symmetry, Lie algebras, and Liouville space to analyze problems in polarization, ray optics, visual optics, and quantum optics. Part V examines the role of coherence functions in modern laser physics and explains how to apply quantum memory channel models in quantum computers. Part VI introduces super-resolution imaging and differential geometric methods in image processing. As numerical/symbolic computation is an important tool for solving numerous real-life problems in optical science, many chapters include Mathematica® code in their appendices. The software codes and notebooks as well as color versions of the book's figures are available at [www.crcpress.com](http://www.crcpress.com).

## Video Surveillance Techniques and Technologies Kogan Page Publishers

The consumer electronics market has never been as awash with new consumer products as it has over the last couple of years. The devices that have emerged on the scene have led to major changes in the way consumers listen to music, access the Internet, communicate, watch videos, play games, take photos, operate their automobiles—even live. Digital electronics has led to these leaps in product development, enabling easier

exchange of media, cheaper and more reliable products, and convenient services. This handbook is a much-needed, comprehensive engineering guide to the dynamic world of today's digital consumer electronics. It provides complete details on key enabling technologies, standards, delivery and reception systems, products, appliances and networking systems. Each chapter follows a logical progression from a general overview of each device, to market dynamics, to the core technologies and components that make up that particular product. The book thoroughly covers all of the key digital consumer product categories: digital TV, digital audio, mobile communications devices, gaming consoles, DVD players, PCs and peripherals, display devices, digital imaging devices, web terminals and pads, PDAs and other handhelds, screenphones/videophones, telematics devices, eBooks and readers, and many other current and future products. To receive a FREE daily newsletter on displays and consumer electronics, go to: <http://www.displaydaily.com/>

- Surveys crucial engineering information for every digital consumer product category, including cell phones, digital TVs, digital cameras, PDAs and many more—the only reference available to do so
- Has extremely broad market appeal to embedded systems professionals, including engineers, programmers, engineering managers, marketing and sales personnel—1,000,000+ potential readers
- Helps engineers and managers make the correct design decisions based on real-world data

### Implementing Industry 4.0 in SMEs Elsevier

A shattered career. A crooked lawyer. An unsolved murder. Seeking peace in the Northwoods is fraught with danger. 2020 Midwest Book Awards Mystery/Thriller Winner Every night John Cabrelli relives the tragic events that ended his career. While struggling to

find himself again, John inherits his uncle's cabin and returns to the lake where he spent much of his youth. Little does John know that danger waits for him when he uncovers suspicious circumstances of his uncle's death. Few people will talk about it as John unravels a mystery that could forever change the landscape. Award-winning author, conservationist, and retired decorated law enforcement officer Jeff Nania weaves a thrilling tale of murder and deceit, family and traditions, redemption and second chances. John Cabrelli's story continues in book two, *Spider Lake: A Northern Lakes Mystery*. C. J. Box, William Kent Krueger, Dana Stabenow, Louise Penny, and Victoria Houston fans love this new mystery series set in Wisconsin's Northwoods. "Jeff Nania's Figure Eight features a spellbinding storyline with more twists and turns than the number in its title. Nania writes with power and precision, humor and grace about land, legacy, loss, love, and the mysteries of (human) nature." — Joel Pace, Ph.D. Professor of English, University of Wisconsin "Nania presents us with well-developed and at times quirky characters, a fast-paced plot line, and some of the best twists in anything I've read this year." — Valerie Biel, Author

## Security in the Health Care Environment Skyhorse Publishing, Inc.

The development of defensive strategies encompassing the fortification and privatization of the city has attracted significant attention during recent years, and has become particularly relevant in the aftermath of September 11th. Dealing with issues of risk, security and the spatial restructuring of contemporary western cities, this book examines how the perceived risk of terrorist attack led to

changes in the physical form and institutional infrastructure of the city of London during the 1990s when the city was a prime terrorist target. The book analyses how the various formal and informal strategies adopted in the City attempted to reduce both the physical and financial risk of terrorism. This was undertaken through a series of place-specific security initiatives and risk management policies which led to increased fortification, a substantial rise in terrorism insurance premiums, and, changing institutional relations at a variety of spatial scales. It also argues that the security measures deployed were developed not in terms of an anti-terrorist effort, but in relation to the unintended by-products of these approaches such as crime reduction and enhanced traffic management capabilities.

Effective Physical Security CRC Press

This book constitutes the refereed proceedings of the 13th International Conference on Similarity Search and Applications, SISAP 2020, held in Copenhagen, Denmark, in September/October 2020. The conference was held virtually due to the COVID-19 pandemic. The 19 full papers presented together with 12 short and 2 doctoral symposium papers were carefully reviewed and selected from 50 submissions. The papers are organized in topical sections named: scalable similarity search; similarity measures, search, and indexing; high-dimensional data and intrinsic dimensionality; clustering; artificial intelligence and similarity; demo and position papers; and doctoral symposium.

Similarity Search and Applications Pebble

"This book presents empirical research and acquired experience on the original solutions and mathematical algorithms for motion detection and object identification problems, emphasizing a wide variety of applications of security systems"--Provided by publisher.

Mathematical Optics Butterworth-Heinemann

The use of digital surveillance technology is rapidly growing as it becomes significantly cheaper for live and remote monitoring. The second edition of Digital Video Surveillance and Security provides the most current and complete reference for security professionals and consultants as they plan, design, and implement surveillance systems to secure their places of business. By providing the necessary explanations of terms, concepts, and technological capabilities, this revised edition addresses the newest technologies and solutions available on the market today. With clear descriptions and detailed illustrations, Digital Video

Surveillance and Security is the only book that shows the need for an overall understanding of the digital video surveillance (DVS) ecosystem. Highly visual with easy-to-read diagrams, schematics, tables, troubleshooting charts, and graphs Includes design and implementation case studies and best practices Uses vendor-neutral comparisons of the latest camera equipment and recording options  
The Digital Consumer Technology Handbook Springer Science & Business Media

The goal of Intelligent video surveillance systems is to efficiently extract useful information from a considerable number of videos collected by surveillance cameras by automatically detecting, tracking and recognizing objects of interest, and understanding and analyzing their activities. Video surveillance has a huge amount of applications, from public to private places.

These applications require monitoring indoor and outdoor scenes. Nowadays, there are a considerable number of digital surveillance cameras collecting a huge amount of data on a daily basis. Researchers are urged to develop intelligent systems to efficiently extract and visualize useful information from this big data source. The exponential effort on the development of new algorithms and systems for video surveillance is confirmed by the amount of effort invested in projects and companies, the creation on new startups worldwide and, not less important, in the quantity and quality of the manuscripts published in a considerable number of journals and conferences worldwide. This book is an outcome of research done by several researchers who have highly contributed to the field of Video Surveillance. The main goal is to present recent advances in this important topic for the Image Processing community.

CCTV Surveillance Butterworth-Heinemann

This highly anticipated new edition provides a comprehensive account of face recognition research and technology, spanning the full range of topics needed for designing operational face recognition systems. After a thorough introductory chapter, each of the following chapters focus on a specific topic, reviewing

background information, up-to-date techniques, and recent results, as well as offering challenges and future directions. Features: fully updated, revised and expanded, covering the entire spectrum of concepts, methods, and algorithms for automated face detection and recognition systems; provides comprehensive coverage of face detection, tracking, alignment, feature extraction, and recognition technologies, and issues in evaluation, systems, security, and applications; contains numerous step-by-step algorithms; describes a broad range of applications; presents contributions from an international selection of experts; integrates numerous supporting graphs, tables, charts, and performance data.

Digital Video Surveillance and Security

Red Iris Books

Effective Physical Security, Fourth Edition is a best-practices compendium that details the essential elements to physical security protection. The book contains completely updated sections that have been carefully selected from the authors' work that set the standard: Handbook of Loss Prevention and Crime Prevention, Fifth Edition. Designed for easy reference, Effective Physical Security contains important coverage of environmental design, security surveys, locks, lighting, and CCTV as well as new chapters covering the latest in the ISO standards for Risk Assessment and Risk Management, physical security planning, network systems infrastructure, and environmental design. This new edition continues to serve as a valuable reference for experienced security practitioners as well as students in undergraduate and graduate security programs. Required reading for the ASIS Physical Security Professional Certification (PSP) and recommended reading for the CPP certification Provides detailed coverage of Physical Security in an easily accessible reference format with content divided into three major parts: Design, Equipment, and Operations Each chapter is written by a recognized expert security specialist

Shooter's Bible Guide to Home Defense Elsevier

Closed circuit television (CCTV) is experiencing a leap in technology using digital techniques, networking and the Internet. The new edition of this high-level professional reference retains the particulars that made the first edition a success, including the details of CCD cameras, lenses, coaxial cables, fiber-optics, and system design, but it is expanded to cover all video compression techniques used in the ever increasing assortment of digital video recorders (DVRs) available on the market today. This new edition of the book CCTV demystifies DVR technology. It also serves to clarify the technology of

data networking. The theoretical section explains the various compression techniques. Networking is also a new and unknown area for many CCTV installers and this is explained in a brand new section. New edition more accessible  
TDL 2015-2016 Catalogue CRC Press  
From officially sanctioned, high-tech operations to budget spy cameras and cell phone video, this updated and expanded edition of a bestselling handbook reflects the rapid and significant growth of the surveillance industry. The Handbook of Surveillance Technologies, Third Edition is the only comprehensive work to chronicle the background and current The Future Home in the 5G Era Sourcebooks, Inc.  
CCTV for Security Professionals provides the information necessary to design the ideal CCTV system. The chapters are stand-alone sources of information on their subjects and are presented in logical sequence to guide the reader from basic principles to more complex for a complete system understanding. In his straight-forward and informative text, Alan Matchett approaches the camera systems from the user's point of view, providing the security manager with the knowledge to discuss the system, its desired features, and the areas of design concern within the context of an organization's business model. This can prove to be invaluable when evaluating an existing system, the use and components of a given system, or in evaluating a system design proposed by a vendor. Installers and service personnel will benefit from the functions and possibilities that are available with the various components and by gaining an understanding of their customers' needs. Newer technicians will learn how to set up the system properly, and can familiarize themselves with the technologies that go into a CCTV system. Security equipment sales personnel will also gain a better knowledge of the customer's needs as well as learn to determine exactly what questions they should be asking the customer and what the customer's responses mean. In this manner, the book will offer invaluable tips to ensure customers get exactly what they expect in a system. \* Provides a detailed explanation of CCTV components and the technology behind analog and digital CCTV systems. \*

Establishes a "common language" for security professionals, CCTV system designers and sales personnel to use as a basis for system design. \* Provides a clear explanation of the design process and design principles. Terrestrial Implementation of UNB Super Camera and Improvements to UNB-PanSharp Springer Nature  
Earth Day celebrates our beautiful planet and calls us to act on its behalf. Some people spend the day planting flowers or trees. Others organize neighborhood clean-ups, go on nature walks, or make recycled crafts. Readers will discover how a shared holiday can have multiple traditions and be celebrated in all sorts of ways.  
CCTV Jones & Bartlett Learning  
Take Control of Home Security Camerasalt concepts Springer Nature  
Offering ready access to the security industry 's cutting-edge digital future, Intelligent Network Video provides the first complete reference for all those involved with developing, implementing, and maintaining the latest surveillance systems. Pioneering expert Fredrik Nilsson explains how IP-based video surveillance systems provide better image quality, and a more scalable and flexible system at lower cost. A complete and practical reference for all those in the field, this volume: Describes all components relevant to modern IP video surveillance systems  
Provides in-depth information about image, audio, networking, and compression technologies  
Discusses intelligent video architectures and applications  
Offers a comprehensive checklist for those designing a network video system, as well as a systems design tool on DVD Nilsson guides readers through a well-organized tour of the building blocks of modern video surveillance systems, including network cameras, video encoders, storage, servers, sensors, and video management. From there, he explains intelligent video, looking at the architectures and typical applications associated with this exciting technology.  
Taking a hands-on approach that meets the needs of those working in the industry, this timely volume, illustrated with more than 300 color photos, supplies readers with a deeper understanding of how

surveillance technology has developed and, through application, demonstrates why its future is all about intelligent network video. Asian Sources Electronics Butterworth-Heinemann  
Never before has so much been known about so many. CCTV cameras, TSA scanners, NSA databases, big data marketers, predator drones, "stop and frisk" tactics, Facebook algorithms, hidden spyware, and even old-fashioned nosy neighbors—surveillance has become so ubiquitous that we take its presence for granted. While many types of surveillance are pitched as ways to make us safer, almost no one has examined the unintended consequences of living under constant scrutiny and how it changes the way we think and feel about the world. In Under Surveillance, Randolph Lewis offers a highly original look at the emotional, ethical, and aesthetic challenges of living with surveillance in America since 9/11. Taking a broad and humanistic approach, Lewis explores the growth of surveillance in surprising places, such as childhood and nature. He traces the rise of businesses designed to provide surveillance and security, including those that cater to the Bible Belt's houses of worship. And he peers into the dark side of playful surveillance, such as eBay's online guide to "Fun with Surveillance Gadgets." A worried but ultimately genial guide to this landscape, Lewis helps us see the hidden costs of living in a "control society" in which surveillance is deemed essential to governance and business alike. Written accessibly for a general audience, Under Surveillance prompts us to think deeply about what Lewis calls "the soft tissue damage" inflicted by the culture of surveillance.  
CCTV Surveillance CRC Press  
The Five Technological Forces Disrupting Security: How Cloud, Social, Mobile, Big Data and IoT are Transforming Physical Security in the Digital Age explores the major technological forces currently driving digital disruption in the security industry, and what they foretell for the future. The book provides a high-level perspective on

how the industry is changing as a whole, as well as practical guidance on how to incorporate these new technologies to create better security solutions. It also examines key questions on how these new technologies have lowered barriers for new entrants in the field and how they are likely to change market dynamics and affect customer choices. Set in the context of one of the early dot.com companies to enter physical security, the narrative is written for professionals from Chief Security Officers and systems integrators to product managers and investors. Explores the five major technological forces driving digital change in commercial security Shows practitioners how to align security strategies with these inevitable changes Examines how the consumerization of security will change the vendor playing field Illustrates how security professionals can leverage these changes in their own careers Provides an adoption scorecard that ranks trends and timeline for impact

The Five Technological Forces  
Disrupting Security IGI Global  
Wing Commander Suhas M Shukla, had been a valued colleague in the Indian Public Schools ' Conference. He worked with distinction as Principal of some reputed Sainik Schools. He also headed a Security Management Institute. Thus, he has hands on experience in education, security and management, which he has dealt with ably. The need to make our schools more safe and secure is felt urgently after the unfortunate incident in a reputed school in the Delhi NCR. Wing Commander Shukla ' s comprehensive and exhaustive book ' Safe and Secure Schools ' could not have been more timely; it satisfies the urgently felt need of schools today. --Dr. M.V.Prasad, Former Principal, Daly College, Indore & Past Chairman, IPSC

#### Intelligent Video Surveillance

Elsevier

The Future Home in the 5G Era looks at new hyper-connected home environments in which devices and apps will work together seamlessly to respond to and anticipate customers' needs, all with maximum security and privacy. Enabled by 5G, AI, and other new technologies such as eSim and edge computing, the Future Home's powerful service ecosystems will be a quantum leap from today's fragmented smart home technology, effectively extending the boundaries of the home even beyond the traditional bounds of the physical, to ultimately make consumers feel 'at home' anywhere. This will create tremendous opportunities for

businesses including communication service providers (CSPs), device manufacturers and app developers, as well as those providing services in diverse sectors such as entertainment, health and social care, education, retail, and more. The Future Home in the 5G Era combines original research from Accenture with practical insights and examples, showing how intelligently orchestrated Future Homes can yield economic success for businesses. Written by leaders of strategy and technology consultancy at Accenture, the authors have vast industry experience leading major units of Fortune 500 companies and start-ups. This book looks at how businesses, especially CSPs, can overcome the challenges and capture the multi-billion-dollar Future Home market by putting strategic emphasis on excellent customer experiences, developing new business models, and turning their organizations into competitively agile platform-based innovators. For business leaders in any sector relevant to the Future Home, this book is an indispensable and value-creating guide.