



Integrated Electronic Security - A Layered Approach

Martin Grigg

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Integrated Electronic Security – 'A Layered Approach' is an unrivaled study of security technology and its integration to form a complete system.

Written in language suitable for professionals and beginners alike, this book describes components and methods that will detect, verify and manage security events. The author demystifies jargon and will bring readers to a clear in-depth understanding of the subject.

The book features descriptions, advice and illustrations which are provided to explain the subject in a coherent and comprehensive manner. Information is sequenced so that it can be used as a reference book as well as in-depth study material.

WHAT'S IN THE BOOK?

IP systems and emerging technology such as video analytics are transforming today's security industry. A new breed of engineers is designing, installing and maintaining modern integrated systems exploiting PSIM. Whether you're an end-user, engineer or student, this book is an essential guide to designing systems, installing equipment and integrating it site-wide.

The starting point for any integrated security scheme is to establish the Operational Requirements of the system. What is the system going to achieve? Modern technology allows system designers to create schemes that can seamlessly integrate with a business model so that security becomes part of the process rather than sitting on the outside of everyday life. Systems can identify and track individuals; they can even predict where and when trouble may occur.

Before tackling all of the new developments within the electronic security industry, there is the need for a basic understanding of the principles of image capture, data transmission and how to put together a system design from concept to delivery. IT skills are essential but are often wasted if the fundamentals are missed. The book is laid out in a way that guides you through the essentials of an integrated security system design and explains in everyday language what each element is and why it is important. The book also introduces system terminology, some jargon, and some of the many acronyms used by seasoned professionals. The book is a guide to the language of security design as well as a knowledge base for designers, engineers, vendors and buyers alike. The language of the integrated electronic security industry is vast and forever evolving.

The first section of the book, which is titled 'Designing a CCTV System', is a summary of the major components and influences that make up a video surveillance scheme. Most importantly, it introduces the concept of operational requirements. This is the idea that the starting point for any security system is to understand and document what the issues are, if they can be resolved using technology, and how this will be achieved. This fundamental information is the backbone of the design process and it is referred to throughout the book.

The main body of the book is broken down into manageable sections which describe the architecture of each system and dive into the detail of the various types of equipment currently available. Electronic access control, intruder detection and wide area surveillance are all covered and the text highlights some of the key

points to consider when designing a system.

The book goes on to describe the commissioning processes of the various systems and the ongoing maintenance to ensure that it continues to meet its operational requirements for years to come.

ABOUT THE AUTHOR

Martin Grigg is an international security consultant with wide experience of the sector and how technology is used. He has produced a 'must-have' reference source that can be used across the whole industry by anybody wanting optimum understanding and results.

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