



The Design and Evaluation of Physical Protection Systems

By Mary Lynn Garcia

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The Design and Evaluation of Physical Protection Systems By Mary Lynn Garcia

The Design and Evaluation of Physical Protection Systems guides the reader through the entire process of security system design and integration, illustrating how the various physical and electronic elements work together to form a comprehensive system. A great resource for both the security professional and student alike, the book is arranged in three major parts:

- 1) Determining the objectives
- 2) Designing the system
- 3) Evaluating the system

The book emphasizes the use of component performance measures to establish the effectiveness of physical protection systems, applying scientific and engineering principles to meet goals. The author takes a problem-solving approach to security and risk assessment, explaining the use of electronic protection elements and demonstrating how these elements are integrated into an effective system.

The Design and Evaluation of Physical Protection Systems contains numerous illustrations of concepts throughout and includes chapter summaries reviewing the salient topics covered. Each chapter includes appropriate references to additional information as well as review questions to test the reader's grasp of key chapter concepts. The appendices include sample models for system performance analysis.

- Describes the process for estimating system performance against threats.
- Approaches security in a practical, systematic manner based on proven and tested measures.
- Offers process-oriented security that is "user friendly" to both the novice and the seasoned professional.

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Editorial Review

Review

Mary Lynn Garcia is to be congratulated on producing a book on physical protection systems that is design-based and is driven by principle rather application. As a senior member of the technical staff at Sandia National Laboratories, Mary Lynn Garcia is well placed to have knowledge of best practice in design of systems, and the development of principles of asset protection. - Dr Clifton Smith, Associate Professor, Security Science, Edith Cowan University

This book will prove to be most valuable for a range of academic, managerial, and practitioner personnel who have responsibility for asset protection, and should be in all major libraries and acquired by everyone with an interest in physical security. - Dr Clifton Smith, Associate Professor, Security Science, Edith Cowan University

Every Sentence is direct, informative, and laced with the author's obviously strong technical background. Garcia's model is well thought out; the approach is the same whatever the asset may be. - Security Management

Garcia does a good job of explaining traditional elements of physical protection systems such as barriers, sensors, and layered defenses. More important, she provides badly needed insights into issues such as law and liability and how emerging technologies can be integrated into physical protection systems. Illustrations are used wisely, especially the diagrams, which help the reader along with difficult concepts. - Security Management

Overall, the book is factual, concise, and up to date - Security Management

From the Publisher

Unique features of this book include examples throughout that emphasize various points. Each chapter ends with a brief summary and a box that reminds the reader of the relevant principles for that chapter. Each chapter also includes appropriate references for additional information, and questions for the student. The appendices include sample models for system performance analysis. In addition, the author provides an instructor's manual with chapter objectives, class notes, exercises, and answers to chapter questions.

About the Author

Ms. Garcia is a Senior Member of the Technical Staff at Sandia National Labs. She has over 20 years experience in Science and Engineering research, development, application, teaching, and project management experience of security systems and technology. She has been a certified Protection Professional since 1997.

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