

# TABLE OF CONTENTS

## PART 1 – INTRODUCTION TO ASSETS PROTECTION

1.1. Introduction .....	1
1.2. Basis for Enterprise Assets Protection .....	2
1.2.1 Defining Assets Protection .....	2
1.2.2 Relation to Security and Other Disciplines .....	3
1.2.3 Historical Perspectives .....	4
1.3. Current Practice of Assets Protection .....	7
1.3.1 Underlying Principles .....	8
1.3.2 Assets Protection in Various Settings .....	9
1.4. Forces Shaping Assets Protection .....	14
1.4.1 Technology and Touch .....	14
1.4.2 Globalization in Business .....	16
1.4.3 Standards and Regulation .....	17
1.4.4 Convergence of Security Solutions .....	20
1.4.5 Homeland Security and the International Security Environment .....	21
1.5. Management of Assets Protection .....	21
1.5.1 Concepts in Organizational Management .....	22
1.5.2 Management Applications in Assets Protection .....	24
1.5.3 Security Organization within the Enterprise .....	25
1.6. Behavioral Issues in Assets Protection .....	26
1.6.1 Behavioral Science Theories in Management .....	27
1.6.2 Applications of Behavioral Studies in Assets Protection .....	28
Appendix A .....	31
References .....	44

## PART 2 – CLOSED-CIRCUIT TELEVISION SYSTEMS

2.1. Introduction .....	47
2.2. Theory of Visual Security .....	48
2.3. Reasons for CCTV in Security .....	48
2.4. Analog System Components .....	51
2.5. Digital System Components .....	53
2.6. System Design .....	54
2.7. Equipment Selection .....	62
2.8. Camera Formats and Lenses .....	66
2.9. Switching Systems .....	68
2.10. Recording Systems .....	71
2.11. Where CCTV is Heading .....	73

## **PART 3 – HIGH-RISE STRUCTURES**

3.1. Introduction .....	75
3.1.1. What is High-Rise Structure? .....	75
3.2. Life Safety Considerations.....	76
3.2.1. Special Concerns of High-Rise Structures .....	76
3.2.2. Dealing with the Life Safety Problem .....	80
3.3. Security Considerations .....	87
3.3.1. Special Concerns of High-Rise Structures .....	87
3.3.2. Life Safety and Security Dilemma .....	88
3.3.3. Typical High-Rise.....	88
3.3.4. Building Operating Modes.....	90
3.3.5. Building Elements.....	90
3.3.6. Access Control of Public Areas .....	91
3.3.7. Access Control of Interior Floors and Spaces.....	96
3.3.8. Access Control of Building Maintenance Spaces.....	97
3.3.9. Access Control of Air Intakes and Telecommunication Services .....	98
3.3.10. Security Features .....	99
3.4. Summary .....	109
References .....	110

## **Part 4 – INTEGRATED SECURITY SYSTEMS DESIGN AND SPECIFICATION**

4.1. Introduction .....	113
4.2. Systems Design Process .....	115
4.3. Planning and Assessment Phase .....	116
4.3.1 Requirements Analysis.....	118
4.3.2 Design Requirements .....	121
4.3.3 Basis of Design .....	123
4.3.4 Conceptual Design .....	123
4.3.5 Design Criteria .....	125
4.3.6 Design Team .....	131
4.4. Design and Documentation Phase.....	132
4.4.1 Contractual Details.....	133
4.4.2 Specifications .....	133
4.4.3 Drawings.....	135
4.4.4 Design Coordination .....	139
4.4.5 Construction Document Review, Approvals, and Issue .....	142
4.4.6 Procurement Phase .....	143
4.4.7 Sole Source Procurement.....	144
4.4.8 Request for Proposal.....	144
4.4.9 Invitation for Bid.....	145
4.4.10 Procurement Process .....	145
References .....	148