Table of contents provided by Syndetics

- **Preface** (p. ix)
- Chapter 1 Introduction to Information Security (p. 1)
- The History of Information Security (p. 3)
- Security in the Systems Development Life Cycle (p. 25)
- Selected Readings (p. 43)
- Chapter Summary (p. 43)
- **Review Questions** (p. 44)
- **Exercises** (p. 45)
- Case Exercises (p. 45)
- **Introduction** (p. 3)
- What Is Security? (p. 10)
- Approaches to Information Security Implementation (p. 24)
- Security Professionals and the Organization (p. 38)
- Communities of Interest (p. 40)
- Information Security: Is It an Art or a Science? (p. 41)
- CNSS Security Model (p. 18)
- Balancing Information Security and Access (p. 23)
- Components of an Information System (p. 20)
- **Endnotes** (p. 46)
- Chapter 2 The Need for Security (p. 49)
- **Introduction** (p. 51)
- Compromises to Intellectual Property (p. 60)
- **Deviations in Quality of Service** (p. 64)
- Human Error or Failure (p. 80)
- **Information Extortion** (p. 86)
- Threats and Attacks (p. 53)
- Espionage or Trespass (p. 66)
- Forces of Nature (p. 77)
- Sabotage or Vandalism (p. 87)
- Software Attacks (p. 90)
- Technical Hardware Failures or Errors (p. 103)
- Technical Software Failures or Errors (p. 105)
- Technological Obsolescence (p. 112)
- **Theft** (p. 114)
- **Selected Readings** (p. 114)
- Chapter Summary (p. 114)
- **Review Questions** (p. 116)
- **Exercises** (p. 117)
- **Endnotes** (p. 118)
- Chapter 3 Legal, Ethical, and Professional Issues in Information Security (p. 123)
- **Introduction** (p. 124)
- Law and Ethics in Information Security (p. 125)
- **Relevant U.S. Laws** (p. 127)
- International Laws and Legal Bodies (p. 143)

- Ethics and Information Security (p. 146)
- Codes of Ethics of Professional Organizations (p. 153)
- Key U.S. Federal Agencies (p. 155)
- Selected Readings (p. 164)
- Chapter Summary (p. 164)
- Security Education, Training, and Awareness Program (p. 211)
- Case Exercises (p. 117)
- **Review Questions** (p. 165)
- **Introduction** (p. 172)
- Information Security Policy, Standards, and Practices (p. 177)
- **Exercises** (p. 166)
- Chapter 4 Planning for Security (p. 171)
- The Information Security Blueprint (p. 194)
- Case Exercises (p. 166)
- **Endnotes** (p. 166)
- Information Security Planning and Governance (p. 172)
- Continuity Strategies (p. 214)
- Chapter Summary (p. 245)
- **Exercises** (p. 247)
- Introduction (p. 254)
- An Overview of Risk Management (p. 255)
- Risk Assessment (p. 282)
- **Risk Control** (p. 295)
- Quantitative Versus Qualitative Risk Management Practices (p. 306)
- Recommended Risk Control Practices (p. 314)
- Chapter Summary (p. 318)
- Selected Readings (p. 245)
- **Review Ouestions** (p. 246)
- Selected Readings (p. 318)
- Case Exercises (p. 248)
- **Endnotes** (p. 249)
- **Risk Identification** (p. 260)
- Chapter 5 Risk Management (p. 253)
- **Review Questions** (p. 319)
- **Exercises** (p. 320)
- Case Exercises (p. 321)
- **Endnotes** (p. 322)
- Chapter 6 Security Technology: Access Controls, Firewalls, and VPNs (p. 325)
- **Introduction** (p. 326)
- Access Control (p. 326)
- **Firewalls** (p. 343)
- **Protecting Remote Connections** (p. 371)
- **Selected Readings** (p. 379)
- Chapter Summary (p. 380)
- **Review Questions** (p. 381)
- **Exercises** (p. 382)

- Case Exercises (p. 382)
- **Endnotes** (p. 383)
- **Introduction** (p. 387)
- Intrusion Detection and Prevention Systems (p. 387)
- Honeypots, Honeynets, and Padded Cell Systems (p. 424)
- Scanning and Analysis Tools (p. 428)
- Selected Readings (p. 443)
- Chapter Summary (p. 443)
- Review Questions (p. 444)
- **Exercises** (p. 445)
- Case Exercises (p. 445)
- **Endnotes** (p. 446)
- Chapter 8 Cryptography (p. 449)
- **Introduction** (p. 450)
- Foundations of Cryptology (p. 451)
- **Cipher Methods** (p. 455)
- Cryptographic Algorithms (p. 467)
- Cryptographic Tools (p. 475)
- **Protocols for Secure Communications** (p. 483)
- Selected Readings (p. 494)
- Chapter Summary (p. 494)
- Review Questions (p. 495)
- **Exercises** (p. 496)
- Case Exercises (p. 497)
- **Endnotes** (p. 498)
- Chapter 9 Physical Security (p. 501)
- **Introduction** (p. 503)
- Physical Access Controls (p. 504)
- Fire Security and Safety (p. 514)
- Failure of Supporting Utilities and Structural Collapse (p. 519)
- **Interception of Data** (p. 526)
- Securing Mobile and Portable Systems (p. 527)
- Special Considerations for Physical Security (p. 531)
- Selected Readings (p. 531)
- Chapter Summary (p. 531)
- Case Exercises (p. 535)
- **Endnotes** (p. 535)
- Chapter 10 Implementing Information Security (p. 537)
- Chapter 7 Security Technology: Intrusion Detection and Prevention Systems, and Other Security Tools (p. 385)
- Review Questions (p. 533)
- **Exercises** (p. 534)
- **Introduction** (p. 539)
- Information Security Project Management (p. 539)
- Technical Aspects of Implementation (p. 550)
- Information Systems Security Certification and Accreditation (p. 559)

- **Selected Readings** (p. 573)
- Chapter Summary (p. 573)
- **Review Questions** (p. 575)
- **Exercises** (p. 576)
- Case Exercises (p. 576)
- **Endnotes** (p. 577)
- Chapter 11 Security and Personnel (p. 579)
- **Introduction** (p. 580)
- Positioning and Staffing the Security Function (p. 581)
- Credentials for Information Security Professionals (p. 594)
- Employment Policies and Practices (p. 608)
- Security Considerations for Temporary Employees, Consultants, and Other Workers (p. 614)
- **Selected Readings** (p. 619)
- Chapter Summary (p. 619)
- **Review Questions** (p. 620)
- **Exercises** (p. 622)
- Case Exercises (p. 622)
- **Endnotes** (p. 623)
- Chapter 12 Information Security Maintenance (p. 627)
- **Introduction** (p. 628)
- Security Management Maintenance Models (p. 629)
- **Selected Readings** (p. 686)
- **Chapter Summary** (p. 687)
- **Review Questions** (p. 688)
- **Exercises** (p. 689)
- **Endnotes** (p. 691)
- **Glossary** (p. 693)
- **Index** (p. 711)
- Case Exercises (p. 689)
- Nontechnical Aspects of Implementation (p. 557)
- **Digital Forensics** (p. 677)