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Titolo	Information technology risk management in enterprise environments : a review of industry practices and a practical guide to risk management teams / / Jake Kouns, Daniel Minoli
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Descrizione fisica	1 online resource (441 p.)
Altri autori (Persone)	KounsJake
Disciplina	658.4/78 658.472
Soggetti	Business enterprises - Computer networks - Security measures Information technology - Security measures Data protection Computer security Risk management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	INFORMATION TECHNOLOGY RISK MANAGEMENT IN ENTERPRISE ENVIRONMENTS; CONTENTS; PREFACE; ABOUT THE AUTHORS; PART I INDUSTRY PRACTICES IN RISK MANAGEMENT; 1. INFORMATION SECURITY RISK MANAGEMENT IMPERATIVES AND OPPORTUNITIES; 1.1 Risk Management Purpose and Scope; 1.1.1 Purpose of Risk Management; 1.1.2 Text Scope; References; Appendix 1A: Bibliography of Related Literature; 2. INFORMATION SECURITY RISK MANAGEMENT DEFINED; 2.1 Key Risk Management Definitions; 2.1.1 Survey of

Industry Definitions; 2.1.2 Adopted Definitions; 2.2 A Mathematical Formulation of Risk
2.2.1 What Is Risk? A Formal Definition2.2.2 Risk in IT Environments; 2.2.3 Risk Management Procedures; 2.3 Typical Threats/Risk Events; 2.4 What is an Enterprise Architecture?; References; Appendix 2A: The CISSPforum/ISO27k Implementers Forum Information Security Risk List for 2008; Appendix 2B: What is Enterprise Risk Management (ERM)?; 3. INFORMATION SECURITY RISK MANAGEMENT STANDARDS; 3.1 ISO/IEC 13335; 3.2 ISO/IEC 17799 (ISO/IEC 27002:2005); 3.3 ISO/IEC 27000 SERIES
3.3.1 ISO/IEC 27000, Information Technology-Security Techniques-Information Security Management Systems-Fundamentals and Vocabulary3.3.2 ISO/IEC 27001:2005, Information Technology-Security Techniques-Specification for an Information Security Management System; 3.3.3 ISO/IEC 27002:2005, Information Technology-Security Techniques-Code of Practice for Information Security Management; 3.3.4 ISO/IEC 27003 Information Technology-Security Techniques-Information Security Management System Implementation Guidance
3.3.5 ISO/IEC 27004 Information Technology-Security Techniques-Information Security Management-Measurement3.3.6 ISO/IEC 27005: 2008 Information Technology-Security Techniques-Information Security Risk Management; 3.4 ISO/IEC 31000; 3.5 NIST STANDARDS; 3.5.1 NIST SP 800-16; 3.5.2 NIST SP 800-30; 3.5.3 NIST SP 800-39; 3.6 AS/NZS 4360; References; Appendix 3A: Organization for Economic CoOperation and Development (OECD) Guidelines for the Security of Information Systems and Networks: Toward a Culture of Security; 4. A SURVEY OF AVAILABLE INFORMATION SECURITY RISK MANAGEMENT METHODS AND TOOLS
4.1 Overview4.2 Risk Management/Risk Analysis Methods; 4.2.1 Austrian IT Security Handbook; 4.2.2 CCTA Risk Assessment and Management Methodology (CRAMM); 4.2.3 Dutch A&K Analysis; 4.2.4 EBIOS; 4.2.5 ETSI Threat Vulnerability and Risk Analysis (TVRA) Method; 4.2.6 FAIR (Factor Analysis of Information Risk); 4.2.7 FIRM (Fundamental Information Risk Management); 4.2.8 FMEA (Failure Modes and Effects Analysis); 4.2.9 FRAP (Facilitated Risk Assessment Process); 4.2.10 ISAMM (Information Security Assessment and Monitoring Method); 4.2.11 ISO/IEC Baselines; 4.2.12 ISO 31000 Methodology
4.2.13 IT-Grundschutz (IT Baseline Protection Manual)

Sommario/riassunto

Discusses all types of corporate risks and practical means of defending against them.Security is currently identified as a critical area of Information Technology management by a majority of government, commercial, and industrial organizations.Offers an effective risk management program, which is the most critical function of an information security program.

2. Record Nr. UNINA9910483716403321

Autore	Fernandez Diaz Alvaro
Titolo	Reshaping of Dirac Cones in Topological Insulators and Graphene / / by Álvaro Díaz Fernández
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ISBN	3-030-61555-3
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XXVI, 183 p. 56 illus., 55 illus. in color.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5061
Disciplina	530.41
Soggetti	Condensed matter Topological insulators Surfaces (Technology) Thin films Materials science - Data processing Electronic structure Quantum chemistry - Computer programs Quantum physics Condensed Matter Physics Topological Material Surfaces, Interfaces and Thin Film Electronic Structure Calculations Quantum Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Reshaping of Dirac Cones by Electric Fields -- Reshaping of Dirac Cones by Magnetic Fields -- Surface States in d-doped Topological Boundaries -- Floquet Engineering of Dirac Cones -- Appendix. .
Sommario/riassunto	Dirac cones are ubiquitous to non-trivial quantum matter and are expected to boost and reshape the field of modern electronics. Particularly relevant examples where these cones arise are topological insulators and graphene. From a fundamental perspective, this thesis

proposes schemes towards modifying basic properties of these cones in the aforementioned materials. The thesis begins with a brief historical introduction which is followed by an extensive chapter that endows the reader with the basic tools of symmetry and topology needed to understand the remaining text. The subsequent four chapters are devoted to the reshaping of Dirac cones by external fields and delta doping. At all times, the ideas discussed in the second chapter are always a guiding principle to understand the phenomena discussed in those four chapters. As a result, the thesis is cohesive and represents a major advance in our understanding of the physics of Dirac materials.