



2. Record Nr.	UNINA9910254828503321
Titolo	Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges : Threats and Counter Efforts / / edited by Maurizio Martellini, Andrea Malizia
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-62108-4
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 407 p. 83 illus., 48 illus. in color.)
Collana	Terrorism, Security, and Computation, , 2197-8778
Disciplina	363.32517
Soggetti	Data protection International relations Chemistry Security International Relations Safety in Chemistry, Dangerous Goods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	INDEX -- Introduction -- LIST OF PAPERS -- A Reflection on the Future of the CBRN Security Paradigm -- Selected issues of Cyber Security Practices in CBRNeCy Critical Infrastructure -- NATO's Response to CBRN Events -- Preventing Hostile and Malevolent Use of Nanotechnology Military Nanotechnology after 15 Years of the US National Nanotechnology Initiative -- Chemical challenges, prevention and responses, including considerations on industrial toxic chemicals for malevolent use, CW precursor material for IEDs -- A Fresh Approach - Review of the Production Development of the CBRN/HAZMAT Equipment -- Radiological and Nuclear events: challenges, countermeasures and future perspectives -- Laser based standoff techniques: a review on old and new perspective for chemical detection and identification -- Implementing an Information Security Program -- Bio-risk Management Culture: Concept, Model, Assessment -- Preventing Nuclear Terrorism: Adressing Policy Gaps and Challenges -- Multidisciplinary DSS as preventive tools in case of CBRNe dispersion

and diffusion – Part 1: A brief overview of the state of the art and an example - Review -- Migration and terrorism: a new approach to consider the threat -- Meeting Growing Threats of Misuse of Toxic Chemicals – Building a Global Chemical Safety and Security Architecture and Promoting International Cooperation -- 'We're doomed!' A critical assessment of risk framing around chemical and biological weapons in the 21st century -- Combining theoretical education and realistic, practical training – the right approach to minimize CBRNe risk -- Chemical security culture in an insecure world: the experience and understanding of the chemical industry -- Living with chemicals – how to prevent their use for hostile purposes and mitigate chemical risks -- Security, Development, and Governance CBRN and Cyber in Africa.

#### Sommario/riassunto

This book covers the security and safety of CBRNE assets and management, and illustrates which risks may emerge and how to counter them through an enhanced risk management approach. It also tackles the CBRNE-Cyber threats, their risk mitigation measures and the relevance of raising awareness and education enforcing a CBRNE-Cyber security culture. The authors present international instruments and legislation to deal with these threats, for instance the UNSCR1540. The authors address a multitude of stakeholders, and have a multidisciplinary nature dealing with cross-cutting areas like the convergence of biological and chemical, the development of edging technologies, and in the cyber domain, the impelling risks due to the use of malwares against critical subsystems of CBRN facilities. Examples are provided in this book. Academicians, diplomats, technicians and engineers working in the chemical, biological, radiological, nuclear, explosive and cyber fields will find this book valuable as a reference. Students studying in these related fields will also find this book useful as a reference.