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| Descrizione fisica | 1 online resource (xii, 241 pages) : illustrations (some color) |
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| Nota di contenuto | Front Cover; Drinking Water Security for Engineers, Planners, and ManagersIntegrated Water Security Series; Copyright; Contents; Preface; About the Authors; Chapter 1 - Introduction; 1. WATER SYSTEM SECURITY OVERVIEW; 2. HISTORICAL PERSPECTIVE; 3. DEFENSE-IN-DEPTH APPROACH; 4. DUAL-USE BENEFITS; 5. TECHNOLOGY SOLUTIONS; CONCLUSIONS; REFERENCES; Chapter 2 - U.S. Regulatory Environment and Planning for Water Security; 1. LEGISLATION; 2. REGULATORY REQUIREMENTS AND GUIDANCE; 3. PLANNING EFFORTS AND DOCUMENTATION; CONCLUSIONS; REFERENCES; Chapter 3 - |

Threats; 1. INTRODUCTION

2. WATER SYSTEM VULNERABILITIES 3. THREATS TO WATER SYSTEMS; 4. POTENTIAL CONTAMINANTS; 5. PUBLIC HEALTH INFORMATION; 6. CASE STUDIES; CONCLUSIONS; REFERENCES; Chapter 4 - Prevention; 1. INTRODUCTION; 2. MOTIVATION FOR PHYSICAL PROTECTION PLANNING; 3. WATER SYSTEM COMPONENTS REQUIRING PROTECTION; 4. WATER SYSTEM HARDENING; 5. WATER SYSTEM PHYSICAL PROTECTION TECHNOLOGY AND DEVICES; 6. WATER SYSTEM SECURITY STANDARDS AND GUIDELINES; 7. CAPITAL IMPROVEMENT PLANNING AND MAINTENANCE; CONCLUSIONS; REFERENCES; Chapter 5 - Detection; 1. INTRODUCTION; 2. DETECTION METHODS 3. CONTAMINANT WARNING SYSTEMS CONCLUSIONS; REFERENCES; Chapter 6 - Response; 1. INTRODUCTION; 2. THREAT EVALUATION; 3. POTENTIAL RESPONSES; 4. SHORT-TERM EMERGENCY WATER SUPPLY; CONCLUSIONS; REFERENCES; Chapter 7 - Rehabilitation; 1. INTRODUCTION; 2. REHABILITATION APPROACH AND REGULATORY GUIDELINES; 3. REHABILITATION PLANNING AND ASSESSMENT; 4. REHABILITATION METHODS; 5. ADDITIONAL REHABILITATION METHODS; 6. REHABILITATION OF BUILDINGS; 7. TRANSPORT AND CONTAINMENT OF CONTAMINATED WATER; 8. TREATMENT OF CONTAMINATED WATER; 9. DISPOSAL ISSUES; 10. POSTREMEDIATION MONITORING 11. LONG-TERM ALTERNATE WATER SUPPLY CONCLUSIONS; REFERENCES; Chapter 8 - Conclusions; Appendix A - List of Acronyms Used in Water Security Literature and Legislation; Appendix B - Water Contamination Events Reported in English Language Newspapers; Appendix C - Chemical and Biological Threats on the Contaminant Candidate List; Appendix D - Physical Prevention Devices for Water Security; Appendix E - Detection Devices for Water Security; Appendix F - Treatment Systems for Recovery and Rehabilitation Efforts; Index

Sommario/riassunto

Concise and readable, Drinking Water Security for Engineers, Planners and Managers provides an overview of issues including infrastructure planning, planning to evaluate vulnerabilities and potential threats, capital improvement planning, and maintenance and risk management. This book also covers topics regarding potential contaminants, available water security technologies, analytical methods, and sensor technologies and networks. Other topics include transport and containment of contaminated water, treatment technologies and the treatability of contaminants. Threat and
