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Nota di contenuto	DETECTION OF EXPLOSIVES FOR COMMERCIAL AVIATION SECURITY -- Copyright -- ABSTRACT -- DEDICATION -- PREFACE -- ACKNOWLEDGMENTS -- Contents -- EXECUTIVE SUMMARY -- SYSTEM CONSIDERATIONS -- TESTING PROTOCOLS AND PERFORMANCE CRITERIA -- GENERAL TEST PROTOCOL FOR BULK DETECTION -- STATUS OF VAPOR AND PARTICLE DETECTION TEST PROTOCOL -- RECENT TECHNOLOGY DEVELOPMENTS -- 1. Thermal Neutron Activation (TNA) -- 2. Automated Neutron Source Accelerator -- 3. Elastic Neutron Scattering -- 4. Pulsed Fast Neutron Activation -- 5. Photon Activation -- 6. Nuclear Resonant Absorption -- 7. Fast

Neutron Associated Particle (FNAP) -- 8. Dual Energy X-Ray Systems -- 9. Backscatter X-Ray -- 10. Extremely Low-Dose X-Ray Devices for Searching Passengers -- 11. Coherent X-Ray Scattering -- 12. Dual Energy X-Ray Computed Tomography (CT) -- 13. Vapor Detection Devices -- 14. Dogs -- 15. Bar Coding -- 16. Pattern Recognition -- SUMMARY OF TECHNOLOGY RECOMMENDATIONS -- 1 SYSTEMS CONSIDERATIONS -- A. INTRODUCTION -- B. EDS ARCHITECTURE AND SEARCH STRATEGY -- C. SIMULATION OF EDS DESIGNS -- Study Airports -- Model Validation and Analysis -- Key Simulation Products -- 2 TESTING PROTOCOLS AND PERFORMANCE CRITERIA -- A. INTRODUCTION -- B. ROLE OF TESTING IN THE FAA REGULATORY PROCESS -- C. TESTING ORGANIZATION -- D. TEST PLANNING AND PREPARATION -- E. A GENERAL TESTING PROTOCOL FOR BULK EXPLOSIVE DETECTION SYSTEMS -- F. THE STATUS OF VAPOR AND PARTICLE DETECTION TEST PROTOCOLS -- REFERENCES -- Appendixes -- APPENDIX A A GENERAL TESTING PROTOCOL FOR BULK EXPLOSIVE DETECTION SYSTEMS -- CONTENTS -- A1 INTRODUCTION -- A2 GENERAL REQUIREMENTS -- A. EXPLOSIVE CHARACTERISTICS TO BE MEASURED -- B. IDENTIFICATION OF THE SET OF THREAT EXPLOSIVES -- C. IDENTIFICATION OF POTENTIAL BAG POPULATIONS -- D. SYSTEM CALIBRATION AND THRESHOLD SETTINGS -- E. MANUFACTURER/CONTRACTOR PARTICIPATION. F. TEST SITES -- G. A STANDARD SET OF BAGS AND THREATS -- A3 SPECIFIC REQUIREMENTS -- A. IDENTIFICATION OF DISTINCT BAG POPULATIONS -- B. IDENTIFICATION AND SELECTION OF THE THREATS -- C. BAG PROCESSING RATES -- D. PRE-TESTING -- A4 DEVELOPMENT OF TEST AND EVALUATION PLANS -- A. GENERAL FACTORS -- B. DATA ANALYSIS PLAN -- C. SELECTION OF TEST BAGS -- D. NUMBER OF TEST BAGS REQUIRED -- E. SELECTION OF THE NUMBER OF THREAT ARTICLES -- A5 TEST EXECUTION -- A6 ANALYSIS AND EVALUATION OF TEST DATA -- ANNEX I A STANDARD SET OF BAGS AND THREATS FOR TESTING BULK EXPLOSIVE DETECTION DEVICES OR SYSTEMS A... -- ANNEX II VALIDATION OF SIMULANTS -- 1. Test Procedures. -- 2. Test Results. -- 3. Analyses for the Validation of Simulants -- a. The Significance of the Difference Between Two Sample Means. -- b. The Paired Difference Approach. -- c. The Analysis of Variance Approach. -- d. Measurement Additivity. -- 4. A Recommended Approach for Validating Simulants -- ANNEX III MODEL TESTING SCENARIO -- APPENDIX B GLOSSARY OF TERMS -- APPENDIX C BIOGRAPHICAL SKETCHES OF COMMITTEE MEMBERS.

#### Sommario/riassunto

This book advises the Federal Aeronautics Administration (FAA) on the detection of small, concealed explosives that a terrorist could plant surreptitiously on a commercial airplane. The book identifies key issues for the FAA regarding explosive detection technology that can be implemented in airport terminals. Recommendations are made in the areas of systems engineering, testing, and technology development.

2. Record Nr.	UNINA9910160701203321
Titolo	Reimagining Sustainability in Precarious Times // edited by Karen Malone, Son Truong, Tonia Gray
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2017
ISBN	9789811025501 9811025509
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XIX, 326 p. 76 illus.)
Classificazione	32.16
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Soggetti	Educational sociology Education - Philosophy International education Comparative education Sociology of Education Educational Philosophy International and Comparative Education
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Section 1 Responding to the Anthropocene -- Chapter 1 Sustainability, Education, and Anthropocentric Precarity -- Chapter 2 The Anthropocene's Call to Educational Research -- Chapter 3 Alternative Paradigms for Sustainability: Decentring the Human without becoming Posthuman -- Chapter 4 Cosmopolitics of Place: Towards Urban Multispecies Living in Precarious Times -- Section 2 Re-configuring and Re-worlding -- Chapter 5 Romancing or Re-configuring nature? Towards Common Worlding Pedagogies -- Chapter 6 A Precarious Body -- Chapter 7 Bodyplacetime: Painting and Blogging 'Dirty, Mess' Humannatured Becomings -- Chapter 8 Tracing Notions of Sustainability in Urban Childhoods -- Chapter 9 Beyond Sustainability: New Visions of Human Econnection in Early Childhood Education -- Chapter 10 Transnational Knowledge Exchange: Connecting Knowledge Traditions for Sustainability of the Planet -- Section 3 Re-reading and Grappling -- Chapter 11 Ecological Posthumanist Theorising: Grappling with Child-Dog-Bodies -- Chapter 12 Connections, Compassion, and

Co-Healing: The Ecology of Relationships -- Chapter 13 Exploring 'Thing-Power' and the 'Spectre of Fear' on Schooling Subjectivities: A Critical Posthuman Analysis of LGBT Silencing -- Chapter 14 Re-thinking Human-Plant Relations by Theorising Using Concepts of Biophilia and Animism in Workplaces -- Chapter 15 Deep Mapping Towards and Intercultural Sustainability Discourse -- Section 4 Representing and re-presencing -- Chapter 16 Expanding Curriculum Pathways between Education for Sustainability (EfS) and Health and Physical Education (HPE) -- Chapter 17 Watery Configurations of Animals, Children, Pedagogies, and Politics in a Suburban Wetland -- Chapter 18 The Ecological Curriculum: Teaching, Learning, Understanding -- Chapter 19 Nurturing Female Outdoor Educators: A Call for Increased Diversity in Outdoor Education in Precarious Times -- Chapter 20 Caretakers and Undertakers: How can Education Support Humanity to Build a Sustainable Future? -- Chapter 21 Educating Beyond the Cultural and the Natural: (Re)Framing the Limits of the Possible in Environmental Education.

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### Sommario/riassunto

This book reflects the considerable appeal of the Anthropocene and the way it stimulates new discussions and ideas for reimagining sustainability and its place in education in these precarious times. The authors explore these new imaginings for sustainability using varying theoretical perspectives in order to consider innovative ways of engaging with concepts that are now influencing the field of sustainability and education. Through their theoretical analysis, research and field work, the authors explore novel approaches to designing sustainability and sustainability education. These approaches, although diverse in focus, all highlight the complex interdependencies of the human and more-than-human world, and by unpacking binaries such as human/nature, nature/culture, subject/object and de-centring the human expose the complexities of an entangled human-nature relation that are shaping our understanding of sustainability. These messy relations challenge the well-versed mantras of anthropocentric exceptionalism in sustainability and sustainability education and offer new questions rather than answers for researchers, educators, and practitioners to explore. As working with new theoretical lenses is not always easy, this book also highlights the authors' methods for approaching these ideas and imaginings. "The book definitely makes an original contribution to the field. Most of the published work related to sustainability in science education does not draw on posthumanism, new materialism or feminist philosophies. I think this book is unique in its use of these theoretical constructs to make sense of sustainability practices in a range of diverse contexts. I think there is an urgent need for this book in the academic community and beyond." Deborah Tippins, University of Georgia, College of Education .

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