Record Nr. UNINA9910454484203321 Department of Homeland Security bioterrorism risk assessment **Titolo** [[electronic resource]]: a call for change Pubbl/distr/stampa Washington, D. C., : National Academies Press, 2008 **ISBN** 1-281-97299-1 0-309-12029-2 9786611972998 Descrizione fisica 1 online resource (171 p.) Disciplina 353.6 Soggetti Bioterrorism - Mathematical models Bioterrorism - Risk assessment Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "Committee on Methodological Improvements to the Department of Note generali Homeland Security's Biological Agent Risk Analysis, Board on Mathematical Science and their Applications Division on Engineering and Physical Sciences, Board on Life Sciences Division on Earth and Life Studies, National Research Council of the National Academies". Nota di bibliografia Includes bibliographical references. Nota di contenuto ""Acknowledgments""; ""Contents""; ""Summary""; ""1 Introduction""; ""2 The Critical Contribution of Risk Analysis to Risk Management and Reduction of Bioterrorism Risk"": ""3 Description and Analysis of the Department of Homeland Security's Biological Threat Risk Assessment of 2006""; ""4 Department of Homeland Security Decision Requirements for Risk Management""; ""5 Risk Assessment for Unknown and Engineered Biothreat Agents""; ""6 Improving Bioterrorism Consequence Assessment"" ""7 Improving the Department of Homeland Security's Biological Threat Risk Assessment and Adding Risk Management"""Appendix A: Lexicon""; ""Appendix B: Mathematical Characterization of the Biological Threat Risk Assessment Event Tree and Risk Assessment", ""Appendix C: Computational Example Illustrating the Replacement of a Joint Distribution of Arc Probabilities with Marginal Expected Values of Individual Arc Probabilities""; ""Appendix D: Bioterrorism Risk Analysis

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""Appendix E: Optimizing Department of Homeland Security Defense Investments: Applying Defender-Attacker (-Defender) Optimization to Terror Risk Assessment and Mitigation"""Appendix F: Combining Game Theory and Risk Analysis in Counterterrorism: A Smallpox Example""; ""Appendix G: On the Quantification of Uncertainty and Enhancing Probabilistic Risk Analysis""; ""Appendix H: Game Theory and Interdependencies""; ""Appendix I: Review of BTRA Modeling""; ""Appendix J: Reprinted Interim Report""; ""Appendix K: Meeting Agendas""; ""Appendix L: Biographies of Committee Members"" ""Appendix M: Acronyms""