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Nota di contenuto	Comparative Risk Assessment; Table of Contents; Foreword; Acknowledgements; Summary; 1 Introduction; 2 Concepts and Definitions; 2.1 Risk; 2.2 Danger/Potential for Damage-Hazard; 2.3 Incertitude and Uncertainty; 2.4 Risk Assessment; 2.5 Risk Evaluation; 2.6 Risk Comparison; 2.7 Risk Management; 2.8 Risk Regulation; 2.9 Risk Communication; 3 CRA in Practice; 3.1 Political Environment of CRA; 3.1.1 CRA in the USA; 3.1.2 CRA in Europe; 3.1.3 CRA in Germany; 3.2 Project Case Studies; 3.2.1 US EPA Unfinished Business Project; 3.2.2 Comparative Risk Framework Methodology and Case Study (US EPA) 3.2.3 Global Burden of Disease (GBD) Study 3.2.4 ExternE Project; 3.2.5 Comprehensive Assessment of Energy Systems Project; 3.2.6 Classification of Carcinogenic Airborne Pollutants for the German TA Air Novella; 3.2.7 Summary; 4 The Empirical Foundations of CRA; 4.1 A Starting Point for Risk Comparisons; 4.2 Risk Comparisons as a Means of Risk Communication; 4.3 Procedural Challenges; 4.3.1 Framework: What is to be Kept in Mind when Determining the System Boundaries

for CRA?; 4.3.2 Risk Categories: What Influence Do They Have on Comparisons? 4.3.3 Attributes: What Influence Do They Have on Comparisons? 4.3.4 Assessment of the Attributes: What Influence Does the Measure of a Risk Have on Comparisons?; 4.3.5 Comparisons: What Influence Does the Nature of the Comparison Have on the Comparison?; 4.4 CRA Negotiations Under Conflict; 4.4.1 Pitfalls in the Evaluation of One's Own Position and Interests; 4.4.2 Pitfalls in the Evaluation of Other Parties; 4.4.3 Pitfalls in the Evaluation of Suggestions; 4.4.4 Pitfalls in the Evaluation of Outcomes; 5 Conceptual Framework for an Integrated Comparative Risk Evaluation 5.1 Methodological Problems of a CRA 5.1.1 Problem: Uncertainty and Incertitude; 5.1.2 Problem: Evaluative Criteria; 5.1.3 Consequences for the Conduct of a CRA; 5.2 Methodology of Comparative Risk Evaluation; 5.2.1 Multiattribute Risk Evaluation: Quantitative and Qualitative Approaches; 5.2.2 Conduct of a Multiattribute Evaluation; 6 The Practical Implementation of CRA; 6.1 Limits of Comparability; 6.2 Goals of a Comparative Evaluation of Risks; 6.2.1 Preliminary Analysis; 6.2.2 Risk Assessment; 6.2.3 Risk Evaluation; 6.2.4 Risk Management; 6.3 Participation Models; 6.4 CRA Participants 6.5 The Sequence of Events in a CRA 6.6 The Organization of Communication; Appendix 1: Risk Metrics; Appendix 2: Multiattribute Comparative Risk Evaluation (MCRA); Appendix 3: Comparative Evaluation of Unclear Risks; Appendix 4: Comparative Evaluation of the Risks of Hazardous Incidents; References; Abbreviations of Organizations; Index

Sommario/riassunto

Providing a catalogue of suggested solutions for different categories of issues, this book offers a balanced overview and methodological examples for the practical implementation of the CRA. It considers CRA in the USA, Europe and Germany, using case studies to analyze and exemplify the decision-making processes and challenges involved. The authors then go on to look at the practical lessons learned from these case studies, together with an in-depth discussion of the underlying scientific hypotheses. Sound scientific knowledge for everyone who makes decisions, whether government ministers,
