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	to Practice; 2.5.1 Some Experiments in Responsible Innovation 2.6 Toward the Future: Building Capacity for Responsible InnovationChapter 3 A Vision of Responsible Research and Innovation; 3.1 Introduction: Technical Inventions, Innovation, and Responsibility; 3.2 Responsible Research and Innovation and the Quest for the Right Impacts of Research; 3.3 Defining the Right Impacts and Outcomes of Research; 3.4 From Normative Anchor Points Toward the Defining of '`Grand Challenges'' and the Direction of Innovation; 3.5 Responsible Research and Innovation: Organizing Collective Responsibility; 3.5.1 Some Examples of Irresponsible Innovation 3.6 A Framework for Responsible Research and Innovation3.6.1 Use of Technology Assessment and Technology Foresight; 3.6.2 Application of Precautionary Principle; 3.6.3 Innovation Governance; 3.7 Outlook; Chapter 4 Value Sensitive Design and Responsible Innovation; 4.1 Introduction; 4.2 Innovation and Moral Overload; 4.3 Values and Design; 4.4 Responsible Innovation; Chapter 5 Responsible Innovation- Opening Up Dialogue and Debate; 5.1 A Short History of Controversies about Science and Technology; 5.2 The Evolution of Public Engagement; 5.3 The Case of Genetically Modified Foods in the UK 5.4 Sciencewise and the Institutional Embedding of Public Engagement in the UK5.5 Motivations for Public Dialogue; 5.6 The Claims for Public Dialogue; 5.7 How (and When) Can Debate and Dialogue Be Opened Up?; 5.8 The Substance of Public Concerns and Their Implications for Governance; 5.9 Concluding Remarks; Chapter 6 "'Daddy, Can I Have a Puddle Gator?'': Creativity, Anticipation, and Responsible Innovation; 6.1 Introduction; 6.2 Understanding Anticipation; 6.3 The Politics of Novelty; 6.4 The Challenge of Speculative Ethics; 6.5 Conclusion Chapter 7 What Is "'Responsible'' about Responsible Innovation? Understanding the Ethical Issues
Sommario/riassunto	Science and innovation have the power to transform our lives and the world we live in - for better or worse - in ways that often transcend borders and generations: from the innovation of complex financial products that played such an important role in the recent financial crisis to current proposals to intentionally engineer our Earth's climate. The promise of science and innovation brings with it ethical dilemmas and impacts which are often uncertain and unpredictable: it is often only once these have emerged that we feel able to control them. How do we undertake science and innovation res