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Autore	Lankford Bruce A.
Titolo	Resource efficiency complexity and the commons : the paracommons and paradoxes of natural resource losses, wastes and wastages / / Bruce Lankford
Pubbl/distr/stampa	Abingdon : , : Earthscan from Routledge, , 2013
ISBN	0-203-52088-2 1-134-07931-1
Descrizione fisica	1 online resource (xiv, 232 pages) : illustrations
Classificazione	NAT038000
Disciplina	333.2
Soggetti	Waste minimization Green technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Formerly CIP.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. A Preliminary Explanation of the Paracommons 2. Main Introduction and the Scope of the Book 3. On Resource Efficiency; Multiple Views 4. A Framework of Resource Efficiency Complexity 5. The Liminal Paracommons - Efficiency and Transition 6. Distinctions Between the Commons and Paracommons 7. Significances and Applications of the Paracommons 8. Conclusions
Sommario/riassunto	"The efficient use of natural resources is key to a sustainable economy, and yet the complexities of resource efficiency have not previously been studied in great depth. In this challenging book, the author proposes a major advance in our understanding of this topic by analysing resource efficiency from the perspective of common pool resources, particularly "the commons" of water resources and its use in irrigated agriculture. He proposes a novel concept of "the paracommons", through which the savings of increased resource efficiency can be viewed. By recycling, economising and avoiding losses, wastes and wastages, these saved resources are then available for further use by the same user, other competing stakeholders or return to the common pool resource. The paracommons is thus a commons of - and competition for - resources freed up by changes to the efficiency of natural resource systems. The idea can be applied to a wide range of resources such as water, energy, forests and high-seas

		fisheries. Five key issues are explored: the complexity of resource use efficiency; the uncertainty of efficiency interventions and outcomes; the destinations of and competition over freed up wastes and wastages; implications for conservation; and the interconnectedness of users and systems brought about by changes efficiency. The book shows how these ideas put efficiency on a par with other criteria and dimensions of resource governance and sustainability such as equity, justice, resilience, access and adequacy"--
2.	Record Nr.	UNINA9910787252503321
	Autore	National Research Council; Division on Earth and Life Studies; Nuclear and Radiation Studies Board
	Titolo	Lessons learned from the Fukushima nuclear accident for improving safety of U.S. nuclear plants
	Pubbl/distr/stampa	[Place of publication not identified], : The National Academies Press, 2014
	ISBN	0-309-27256-4 0-309-27254-8
	Altri autori (Persone)	National Research Council
	Disciplina	363.17/990952117
	Soggetti	Nuclear power plants - Security measures - Japan Nuclear reactor accidents - Risk assessment - Safety measures Nuclear power plants Risk Management Safety Organization and Administration Accidents Public Health Accident Prevention Health Services Administration Health Care Environment and Public Health Safety Management Radioactive Hazard Release Civil & Environmental Engineering Electrical & Computer Engineering Engineering & Applied Sciences Electrical Engineering Environmental Engineering

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Background on Japanese and U.S. Nuclear Plants -- Great East Japan Earthquake and Tsunami and Impacts on Japanese Nuclear Plants -- Fukushima Daiichi Nuclear Accident -- Lessons Learned: Plant Operations and Safety Regulations -- Lessons Learned: Offsite Emergency Management -- Lessons Learned: Nuclear Safety Culture -- References -- Appendix A: Biographical Sketches of Committee, Technical Advisor, and Staff -- Appendix B: Presentations, Breakout Sessions, and Visits -- Appendix C: Detailed Accident Time Line -- Appendix D: Operation and Support Organizations -- Appendix E: Recommendations from Other Organizations -- Appendix F: Regulator and Industry Actions in the United States -- Appendix G: Hydrogen Control in Severe Accidents -- Appendix H: Nuclear Plant Emergency Procedures and Guidelines -- Appendix I: Probabilistic Risk Assessment -- Appendix J: Human Reliability Analysis -- Appendix K: Tsunami Hazards in the Atlantic Ocean Basin -- Appendix L: Factoring the Costs of Severe Nuclear Accidents into Backfit Decisions -- Appendix M: Access to Timely and Reliable Information to Support Decision Making During a Nuclear Power Plant Accident -- Appendix N: Conversions and Units -- Appendix O: Acronyms.
Sommario/riassunto	"The March 11, 2011, Great East Japan Earthquake and tsunami sparked a humanitarian disaster in northeastern Japan. They were responsible for more than 15,900 deaths and 2,600 missing persons as well as physical infrastructure damages exceeding 200 billion dollars. The earthquake and tsunami also initiated a severe nuclear accident at the Fukushima Daiichi Nuclear Power Station. Three of the six reactors at the plant sustained severe core damage and released hydrogen and radioactive materials. Explosion of the released hydrogen damaged three reactor buildings and impeded onsite emergency response efforts. The accident prompted widespread evacuations of local populations, large economic losses, and the eventual shutdown of all nuclear power plants in Japan. Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants is a study of the Fukushima Daiichi accident. This report examines the causes of the crisis, the performance of safety systems at the plant, and the responses of its operators following the earthquake and tsunami. The report then considers the lessons that can be learned and their implications for U.S. safety and storage of spent nuclear fuel and high-level waste, commercial nuclear reactor safety and security regulations, and design improvements. Lessons Learned makes recommendations to improve plant systems, resources, and operator training to enable effective ad hoc responses to severe accidents. This report's recommendations to incorporate modern risk concepts into safety regulations and improve the nuclear safety culture will help the industry prepare for events that could challenge the design of plant structures and lead to a loss of critical safety functions. In providing a broad-scope, high-level examination of the accident, Lessons Learned is meant to complement earlier evaluations by industry and regulators. This in-depth review will be an essential resource for the nuclear power industry, policy makers, and anyone interested in the state of U.S. preparedness and response in the face of crisis situations."--