

1. Record Nr.	UNINA9910231248503321
Autore	Joonhong Ahn
Titolo	Resilience: A New Paradigm of Nuclear Safety [[electronic resource]] : From Accident Mitigation to Resilient Society Facing Extreme Situations // edited by Joonhong Ahn, Franck Guarnieri, Kazuo Furuta
Pubbl/distr/stampa	Springer Nature, 2017 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-58768-4
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVII, 356 p. 62 illus., 48 illus. in color.)
Disciplina	363.7
Soggetti	Radiation protection Radiation—Safety measures Nuclear energy Environmental sciences Environmental policy Environmental economics Engineering ethics Effects of Radiation/Radiation Protection Nuclear Energy Environmental Science and Engineering Environmental Policy Environmental Economics Engineering Ethics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Part I: What are damages in Nuclear Accidents?- Part II: Measurement of Damages -- Part III: Barriers against Transition into Resilience -- Part IV: Research questions for developing knowledge toward transition into resilience -- Epilogue.
Sommario/riassunto	This book is published open access under a CC BY 4.0 license. This book summarizes presentations and discussions from the two-day international workshop held at UC Berkeley in March 2015, and derives

questions to be addressed in multi-disciplinary research toward a new paradigm of nuclear safety. The consequences of the Fukushima Daiichi nuclear accident in March 2011 have fuelled the debate on nuclear safety: while there were no casualties due to radiation, there was substantial damage to local communities. The lack of common understanding of the basics of environmental and radiological sciences has made it difficult for stakeholders to develop effective strategies to accelerate recovery, and this is compounded by a lack of effective decision-making due to the eroded public trust in the government and operators. Recognizing that making a society resilient and achieving higher levels of safety relies on public participation in and feedback on decision-making, the book focuses on risk perception and mitigation in its discussion of the development of resilient communities.
