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Nota di contenuto	Section I. Adaptation needs: Extreme events : trends and risk assessment methodologies -- Adapting to sea-level rise -- Climate change, climate extremes, and global food production : adaptation in the agricultural sector -- Tracking adaptation progress at the global level : key issues and priorities -- Evolution of climate change adaptation policy and negotiation -- Section II. Adaptation actions : hazards, ecosystems, sectors: Flood risk management in the United Kingdom : putting climate change adaptation into practice in the Thames Estuary -- The science of adaptation to extreme heat -- Measuring drought resilience through community capitals -- Community-based adaptation : Alaska Native communities design a relocation process to protect their human rights -- California : it's complicated : drought, drinking water, and drylands -- Advancing coastal climate resilience : inclusive data and decision-making for small island communities -- Building urban resilience to address urbanization and climate change -- Climate-smart agriculture in Southeast Asia : lessons from community-based adaptation programs

in the Philippines and Timor-Leste -- Challenges in building climate-resilient quality energy infrastructure in Africa -- Section III. Tools and approaches: Ethics, communities, and climate resilience : an examination by case studies -- A framework for assessing the effectiveness of ecosystem-based approaches to adaptation -- The Global Framework for Climate Services Adaptation Programme in Africa -- Supporting farmers facing drought : lessons from a climate service in Jamaica -- Forecast-based financing and climate change adaptation : Uganda makes history using science to prepare for floods -- Managing risks from climate change on the African continent : The African Risk Capacity (ARC) as an innovative risk financing mechanism -- Climate change adaptation in Ethiopia : developing a method to assess program options -- Social capital as a determinant of resilience : implications for adaptation policy -- Section IV. Emerging issues: Climate-resilient development in fragile contexts -- Ecological, agricultural, and health impacts of solar geoengineering -- The progression of climate change, human rights, and human mobility in the context of transformative resilience : a perspective over the Pacific -- Integrated loss and damage : climate change adaptation : disaster risk reduction framework : the case of the Philippines -- Section V. Next steps: Intelligent tinkering in climate change adaptation.

Sommario/riassunto

"In 'Resilience : the science of adaptation to climate change' leading experts analyze and question ongoing adaptation interventions. Contributions span different disciplinary perspectives, from law to engineering, and cover different regions from Africa to the Pacific. Chapters assess the need for adaptation, highlighting climate change impacts such as sea level rise, increases in temperature, changing hydrological variability, and threats to food security. The book then discusses the state of global legislation and means of tracking progress. It reviews ways to build resilience in a range of contexts--from the Arctic, to small island states, to urban areas, across food and energy systems. Critical tools for adaptation planning are highlighted--from social capital and ethics, to decision support systems, to innovative finance and risk transfer mechanisms. Controversies related to geoengineering and migration are also discussed. This book is an indispensable resource for scientists, practitioners, and policy makers working in climate change adaptation, sustainable development, ecosystem management, and urban planning"--Page 4 of cover.