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Nota di contenuto	Section I: Regional Climate Change Signals -- 1. Land surface feedback and impacts of land use change to Indian Monsoon Rainfall -- 2. Intraseasonal short-term suppression of monsoon by aerosols -- 3. Future hydrologic scenarios in India under climate change -- 4. Links between global climate teleconnections and Indian monsoon rainfall -- 5. Urbanisation and Surface Urban Heat Island Intensity (SUHI) -- 6. Future Heat Wave Projections and Impacts -- 7. Decadal GMB Estimations for Glaciers in Western Himalayas -- 8. Atmosphere and ocean mixing processes -- 9. Nearshore Sediment Transport in a Changing Climate -- Section II: National and Sub-national Responses to Climate Change -- 10. A comprehensive social vulnerability analysis at a national scale -- 11. Review of energy-economics modelling for India -- 12. Sectoral energy intensity and climate impact -- 13. Scenarios of SLCP emissions and mitigation pathways to 2050 -- 14. Drivers of climate change adaptation and measurement of adaptive capacity -- 15. Carbon Mitigation Potential of Alternative Bioenergy Pathways --

16. Cross sectional institutional linkages in climate change responses -- 17. Present day emissions and low carbon growth pathways for the brick sector -- 18. Consumer response to policy interventions in energy efficiency: Climate policy implication.

Sommario/riassunto

This book provides a synthesis of research findings, in terms of strategic knowledge outcomes regarding emergence of recent regional climate signals, implications for impacts assessment, and mitigation and adaptation response, relevant in the Indian context. The first part discusses evidence of climate change and its underlying scientific processes across India, chiefly focusing on impacts that are already visible and attributable to anthropogenic activities. The latter part deals with the responses to climate change, highlighting the mitigation and adaptation strategies in various sectors and communities. The book presents a concise interpretation, distilling practical recommendations and policy prescriptions at national and sub-national levels. It serves as a reference point for understanding scientific advances and persisting uncertainty, future vulnerability and response capacity of interlinked human and natural systems, pertaining to India. It is an excellent resource for policy makers and industry watchers in addition to the research fraternity.
