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Nota di contenuto	A Practical Urban Habitat for Living in the Extreme Drought Conditions of the Future, Using Advanced Wastewater Recycling Technologies -- Risk assessment of green reuse of abandoned industrial buildings#A case of steel mill -- Adaptation of plant ecosystems to rapid climate change in the Ural region: Carbon fields - the most important arena for assessing climate change in the Urals -- The Healing world from 2020 onwards -- Climate Determinants of Health -- Pedestrian conditions from a climate change vulnerability perspective in low income communities -- Effects of climate change on human security and sustainable -- Role of Value Orientation and Belief in shaping Indian Pre-Service Teachers' Personal Norms to address Climate Change -- Urban energy consumption in the City of Naples (Italy): a geographically weighted regression approach -- Mechanical Properties and Impact

Resistance of Steel Fiber Reinforced Fly Ash and Nanosilica Concrete -- Nonintrusive Load Monitoring System for Decarbonization of Built Environment Based on Deep Learning Algorithm -- Sustainable Renovation on Aosta Residential Building for Carbon Neutrality -- Sensitivity Analysis Using Standardized Regression Coefficients of Roof Design Variables for Energy Performance in Residential Buildings -- Study on the Effect of Adding Biochar to Green Roof Substrate on Carbon Dioxide Reduction -- Features of ESG risk management in the implementation of megaprojects: the Belt and Road Initiative -- Informatic analysis and review of literature on the optimum selection of sustainable materials used in construction projects -- Assessing air pollutant distribution and its influencing factors in the urban street canyon environments -- Sustainability, and Post-Covid 19 Era: Changing Housing Design and Models in the Cities and Istanbul.

Sommario/riassunto

This book discusses the challenges related to climate change mitigation and adaptation. It adds valuable strategies and insights into the development of new practices solving the identified social and economic problems related to ecosystem deterioration and anticipating other disasters related to climate change. As the decarbonization of cities and communities became an issue of great interest to many researchers, the book in hand is of great importance to decision-makers and energy stakeholders and others seeking a more resilient and sustainable future and developing innovative technologies to overcome environmental deterioration. This book is a culmination of selected research papers from the first version of the international conference on ‘Climate Change and Environmental Sustainability’ which was held in 2022 in collaboration with Chongqing University, China.