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Autore	Rolland, Romain
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Titolo	Urban Climate and Urban Design / / edited by Baojie He, Yupeng Wang, Ali Cheshmehzangi
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Collana	Urban Sustainability, , 2731-6491
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Nota di contenuto	Nexus of Urban Climate and Urban Design -- Monitoring, Assessing, and Forecasting Urban Climate -- Issues and Challenges -- Heatwave Resilience: What Do We Know About its Monitoring, Assessing and Forecasting? -- Modeling Natural Ventilation in Urban Environments: A Review of Existing Techniques and Tools -- From Vernacular to Vernomimicry: Vernacular Design Principles for Resilient Communities.
Sommario/riassunto	This book provides theoretical and methodological references for urban climate research and generates practical implications for mitigation and adaptation capacity improvement. Addressing climate-related risks, threats and disasters in cities to a significant extent means creating resilient, healthy, safe and inclusive built environments. Urban design is an implementable and tangible pathway to practically deal with the city-climate interactions, while there should be a large transformation from unsustainable urban design patterns towards sustainable ones. This book is a comprehensive collection of theoretical perspectives and global case study examples focused on three core areas of (i) urban climate monitoring, assessing and forecasting, (ii) mitigation and adaptation strategies, (iii) advanced and emerging design models and tools, and (iv) action plans and policy formulation. This book will be of interest to a range of researchers from earth and planetary sciences and environmental sciences to engineering, architecture, and urban planning. This book will also enlighten policy makers, practitioners, and developers how to properly regulate urban climate through design interventions. We believe this book is promising to narrow the gap in the transition towards climate-resilient cities, and enhance the understanding of new ideas, methods, strategies, and policies.